CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Sept. 18	East Grand Forks, Minn.	Sept. 7
Sept. 18	Steubenville, O.	Sept. 7
Sept. 18	North Muskegon (Muskegon P. O.), Mich.	Sept. 14
Sept. 19	New York, N. Y.	Sept. 14
Sept. 22	Duluth, Minn.	Sept. 7
Sept. 23	Columbus, O.	Sept. 14
Sept. 25	Tulsa, Okla. Adv. Aug. 24 to Sept. 14.	Aug. 24
Sept. 28	Poughkeepsie, N. Y. Adv. Sept. 14.	Sept. 14
Sept. 29	Cleveland, O.	Sept. 7
Oct. 1	Ponchatoula, La.	Aug. 3
Oct. 3	Haines City, Fla. Adv. Sept. 7 and 14.	Sept. 7
Oct. 5	Marshall, Ill.	Sept. 14
Oct. 10	Greensboro, N. C. Adv. Sept. 14.	Sept. 14
Oct. 19	Newark, N. J. Adv. Sept. 14.	Sept. 7

SEWERS

Sept. 15	Asbury Park, N. J.	Sept. 14
Sept. 19	Newark, N. J.	Aug. 24
Sept. 19	Hagerstown, Md.	Sept. 7
Sept. 20	Manchester N. H.	Sept. 7
Sept. 20	Denver, Colo.	Sept. 7
Sept. 20	Rye, N. Y. Adv. Sept. 14.	Sept. 14
Sept. 21	Jacksonville, Fla.	Aug. 31
Sept. 21	Louisville, Ky.	Sept. 7
Sept. 23	Bloomington, Ill.	Aug. 31
Sept. 23	Columbus, O.	Sept. 14
Sept. 25	Hackensack, N. J.	Aug. 31
Sept. 25	Ellsworth, Wis. Adv. Sept. 14.	Sept. 14
Sept. 26	Ft. Worth, Tex. Adv. Sept. 7 and 14.	Sept. 7
Sept. 28	Lake Forest, Ill.	Aug. 31
Sept. 29	Chesterton, Ind. Adv. Sept. 14.	Sept. 14
Oct. 3	Toronto, Ont.	Sept. 7
Oct. 10	Syracuse, N. Y. Adv. Sept. 7 and 14.	Sept. 7

WASTE DISPOSAL

Sept. 22	Trenton, N. J.	Sept. 7

BRIDGES

Sept. 18	Ft. Worth, Tex.	Sept. 7
Sept. 18	Cambridge, Mass.	Sept. 7
Sept. 18	Indiana	Sept. 7
Sept. 20	South Norwalk, Conn.	Sept. 7
Sept. 20	Lowell, Mass. Adv. Sept. 14.	Sept. 14
Sept. 21	Appleton, Wis.	Sept. 14
Sept. 26	Alabama	Aug. 31
Sept. 26	Toledo, O. Adv. Sept. 7 and 14.	Sept. 7
Sept. 29	Los Angeles, Calif.	Sept. 14
Oct. 1	Siam	July 13
Oct. 6	Seattle, Wash.	Sept. 7
Oct. 16	Sacramento, Cal.	Sept. 14
Oct. 31	Sydney, Australia	Jan. 12
Sept. 1, 1923,	Sydney, New South Wales, Australia	Aug. 3

EXCAVATION, DREDGING, IRRIGATION

Sept. 18	Plainfield, N. J.	Sept. 7
Sept. 18	New York, N. Y.	Sept. 14
Sept. 19	Ft. Lauderdale, Fla.	Sept. 14
Sept. 20	Nevada, Ia.	Sept. 14
Sept. 21	St. James, Minn.	Sept. 7
Sept. 21	Ravenwood, Mo.	Sept. 14
Sept. 22	Wynne, Ark.	Sept. 7
Sept. 22	Merced, Calif.	Sept. 14
Sept. 27	Delaware Adv. Sept. 14.	Sept. 14

STREETS AND ROADS

Bids Close		See Eng. News-Record
Sept. 14	New York, N. Y.	Sept. 14
Sept. 16	Marion, Ind.	Sept. 14
Sept. 16	Noblesville, Ind.	Sept. 14
Sept. 18	Steubenville, O.	Sept. 7
Sept. 18	Charleston, Miss.	Aug. 24
Sept. 18	Minnesota	Aug. 31
Sept. 18	New Haven, Conn.	Sept. 14
Sept. 19	New Orleans, La.	July 6
Sept. 19	Quebec	Sept. 7
Sept. 19	Woodbury, N. J. Adv. Sept. 7 and 14.	Sept. 7
Sept. 19	Maryland Adv. Sept. 7 and 14.	Sept. 7
Sept. 19	Virginia	Sept. 7
Sept. 19	Michigan	Sept. 14
Sept. 19	Wyoming	Sept. 14
Sept. 19	Munhall, Pa.	Sept. 14
Sept. 19	York, S. C.	Sept. 14
Sept. 20	Denver, Colo.	Sept. 7
Sept. 20	New York Adv, Sept. 7 and 14.	Sept. 7
Sept. 20	Michigan	Sept. 14
Sept. 20	Maple Heights (Bedford P. O.), O.	Sept. 14
Sept. 21	West Roxbury (Boston P. O.), Mass.	Sept. 14
Sept. 22	Duluth, Minn.	Sept. 7
Sept. 22	Missouri	Sept. 14
Sept. 22	Vermont Adv. Sept. 14.	Sept. 14
Sept. 22	Winters, Tex.	Sept. 14
Sept. 25	California	Sept. 7
Sept. 25	Ellsworth, Wis.	Sept. 14
Sept. 25	Lindsay, Calif.	Sept. 7
Sept. 26	Alabama	Aug. 31
Sept. 26	Connecticut Adv. Sept. 14.	Sept. 14
Sept. 26	Colorado	Sept. 14
Sept. 27	Wellington, Kan.	Sept. 7
Sept. 27	New Jersey Adv. Sept. 14.	Sept. 14
Sept. 27	Baltimore, Md.	Sept. 14
Sept. 27	Michigan	Sept. 14
Sept. 28	New Mexico	Sept. 7
Sept. 29	Tulsa, Okla.	Aug. 24
Sept. 29	Iola, Kan.	Sept. 7
Oct. 2	Noroton Heights, Conn. Adv. Sept. 14.	Sept. 14
Oct. 3	Anderson, S. C.	Aug. 31
Oct. 3	Washington	Aug. 31
Oct. 6	Wellington, Kan.	Sept. 14
Oct. 6	Alabama	Sept. 14
Oct. 13	Iola, Kan.	Sept. 14

INDUSTRIAL WORK

Sept. 19	Detroit, Mich.	Sept. 7
Sept. 25	Springfield, Mo.	Sept. 14
Sept. 26	Corinth, Miss. Adv. Sept. 14.	Sept. 14
Oct. 1	Williamsport, Pa.	Sept. 14
Oct. 5	Marshall, Ill.	Sept. 14

BUILDINGS

Sept. 18	Glens Falls, N. Y.	Aug. 31
Sept. 18	Cleveland, O.	Aug 31
Sept. 18	Saratoga Springs, N. Y.	Aug. 31
Sept. 18	San Antonio, Tex.	Sept. 7
Sept. 18	St. Paul, Minn.	Sept. 14
Sept. 18	Albany, N. Y.	Sept. 14
Sept. 19	Detroit, Mich.	Sept. 7
Sept. 19	Pittsburgh, Pa.	Sept. 14
Sept. 20	Dearborn, Mich.	Aug. 31
Sept. 20	Wash., D. C.	Sept. 14
Sept. 22	Brooklyn, N. Y.	Sept. 14
Sept. 23	Port Huron, Mich.	Sept. 7
Sept. 23	Findlay, O.	Sept. 14
Sept. 25	Clark Summit, Pa.	Sept. 14
Sept. 26	Glens Falls, N. Y.	Sept. 14
Sept. 27	Wash., D. C.	Sept. 7
Sept. 28	Ithaca, N. Y. Adv. Sept. 7 and 14.	Sept. 7
Sept. 30	Duluth, Minn.	July 13
Oct. 1	Duluth, Minn.	Aug. 3
Oct. 2	Cedar Rapids, Ia.	Sept. 14
Oct. 3	Sacramento, Calif.	Sept. 7
Oct. 6	Brookville, O.	Sept. 14

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
Sept. 15	Buildings—Broadview (Bellewood P. O.), Ill.	Sept. 14
Sept. 18	Barges—Florence, Ala. Adv. Aug. 24 to Sept. 14.	Aug. 24
Sept. 18	Turbine—Florence, Ala. Adv. Aug. 24 to Sept. 14.	Aug. 24
Sept. 20	Chimney — Quantanamo, Cuba,	Sept. 14
Sept. 20	Quarters — Langley Field, Va.	Aug. 31
Sept. 21	Jetty Repairs—Jacksonville, Fla. Adv. Aug. 24 to Sept. 14.	Aug. 24
Sept. 22	Cast Iron Mains, etc. — Fitzsimons, Colo.	Aug. 31
Sept. 26	Repairing Walls—Savannah, Ga. Adv. Aug. 31 to Sept. 14.	Aug. 31
Sept. 27	Quarters — Ft. Bayard, N. M.	Aug. 31
Sept. 27	Portland Cement—Memphis, Tenn. Adv. Sept. 14.	Sept. 14
Sept. 28	Dredging—Buffalo, N. Y. Adv. Aug. 31 to Sept. 14.	Aug. 31
Sept. 28	Extension, etc.—Alexandria, La.	Sept. 7
Sept. 29	Post Office—Eureka, Utah	Sept. 7
Oct. 4	Telephone System—Tuskegee, Ala. Adv. Sept. 14.	Sept. 14
Oct. 5	Dredging — New York, N. Y. Adv. Sept. 7 and 14.	Sept. 7
Oct. 6	Dredging — Wilmington, Del. Adv. Sept. 7 and 14.	Sept. 7
Oct. 6	Post Office — Charlestown, W. Va. Adv. Sept. 14.	Sept. 14
Oct. 10	Towboat—Mobile, Ala. Adv. Sept. 7 and 14.	Sept. 14
Oct. 16	Earthwork—Yuma, Ariz. Adv. Sept. 14.	Sept. 14
Oct. 31	Dredging—Honolulu, H. T. Adv. Aug. 31 to Sept. 14.	Aug. 31

MISCELLANEOUS

Sept. 21	Pipe, etc. — New York, N. Y.	Sept. 14
Sept. 21	Clam Shell Bucket—New York, N. Y.	Sept. 14
Sept. 22	Heating and Ventilating Apparatus—Brooklyn, N. Y.	Sept. 14
Sept. 22	Heating and Ventilating Apparatus, etc. — Elmhurst, (Flushing, P. O.), N. Y.	Sept. 14
Sept. 23	Crane—Aberdeen, Wash. Adv. Sept. 7 and 14.	Sept. 7
Sept. 27	Snow Plow—Delaware Adv. Sept. 14.	Sept. 14
Oct. 2	Pier—Vancouver, B. C.	Sept. 7
Oct. 10	Steam Turbine, etc.—New Orleans, La. Adv. Aug. 17 to Sept. 14.	Aug. 17
Nov. 4	Transformers, etc. — Melbourne, Australia	Aug. 17

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

La., Alexandria—Having plans prepared and soon takes bids for mains and equipment for water reservoir. $95,000.

Tenn., Memphis—Bd. Comrs. of Artesian Water Dept. soon takes bids rein.-con. reservoir and rein.-con. substructures of pumping station, iron removal plant and aerator, designated as Contr. 6, incl., 80,000 cu.yd. excav., 15,000 cu.yd. concrete, 700 ton reinforcing, 220 ton c.i. pipe and specials, seventy-five 4-48 in. valves and sluice gates, five 30-42 in. Venturi meters, 8 filter rate controllers. Fuller & McClintock, 421 Produce Exch. Bldg., Kansas City, Mo., engrs.

O., Greenville—Water Dept. plans purification and softening plant. $150,000. C. D. Hankins, Serv. Dir.

Wis., Sturgeon Bay—Voted $26,000 bonds for waterworks plant for new drinking water system, incl. rein.-con. reservoir. Engineer not selected.

Ia., Villisca—For 100,000 gal. steel tank and 60 ft. tower, to Pittsburg-Des Moines $6,261. Noted Aug. 24.

Tex., Teague—Making plans for new plant. $100,000. E. B. St. Clair, Teague, engr.

Wash., Tacoma—Plans laying 20 in. c.i. main from South 35th St. to South 54th Sts., partially on J and K Sts., 9,456 ft. of 20 in. and 1,392 ft. of 6 in. c.i. pipe. $78,757. W. A. Kunigk, 402 City Hall, engr.

BIDS DESIRED

N. Y., New York—Sept. 19, by Bd. Purch., Municipal Bldg., furnishing, delivering, unloading, stacking and storing high pressure c.i. pipe and special castings, to Dept. Water Supply, Gas & Electricity.

N. Y., Poughkeepsie—Sept. 28, by Bd. Pub. Wks., Eastman Park Mansion, laying c.i. mains and appurtenances. Hazen, Whipple & Fuller, 30 East 42nd St., New York, consult. engrs.; adv. this issue.

N. C., Greensboro—Oct. 10, by City Council, building filtration plant and appurtenances P. C. Painter, city mgr. J. L. Ludlow, Winston-Salem, consult. engr.; adv. this issue. Noted May 11.

Waterworks (Continued)

Mich., North Muskegon (Muskegon P. O.) —Sept. 18, by E. D Prescott, city clk., waterworks plant, incl. pumping station, receiving well, machinery, filtration gallery, mains, etc., also separate bids for 7 receiving wells, pumping equipment, c.i. mains, valves, hydrants, 2 motor driven centrifugal pumps, one 350 gal. and one 500 gal. per minute against 165 ft. head, also separate bids on 70,000 gal. steel tank, on 100 ft. tower. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

O., Columbus—Sept. 23, by Franklin Co., 18,740 ft. 6-12 in. c.i. mains in Sewer Dist. Clinton 2, Clinton Twp., incl. four 12 in., four 8 in. and forty-four 6 in. gate valves, etc. $33,000. E. G. Bradbury, 406½ South High St., engr.

Ill., Hinsdale — Village Clerk receiving bids 12,400 ft. 12 in. and 800 ft. 10 in. class C c.i. pipe, fire hydrants and additional piping in pumping station.

Ill., Marshall—Oct. 5, by Mayor and City Council, removing old pumps from pumping station, new concrete floor, waterproofing floors and walls, furnishing and installing 2 motor driven triplex pumps, 350 g.p.m. each, furnishing and erecting transmission line incl. transformers and lighting fixtures from power house to pumping station (about 2 mi.). F. L. Wilcox, Chemical Bldg., St. Louis, Mo., engr.

BIDS RECEIVED

O., Cleveland—Cuyahoga Co., 18,900 ft. 6-10 in. c.i. mains in Co. Sewer Dist. Impvt. 16, from G. J. Zeigiob, 1138 Bolivar Rd., $55,835; E. Pesa & Son, 2462 Baldwin Rd., $57,234; T. P. Egan, 720 Caxton Bldg., $61,162.

CONTRACTS AWARDED

Mass., Mansfield—E. E. Lothrop, town mgr., water system extension, 10,100 ft. 6 and 8 in. pipe, in East Mansfield, and 8,700 ft. c.i. pipe in West Mansfield: pipe, to Allen & Reed, 178 Dorrance St., Providence, R. I., Universal pipe, 6 in., at $0.9345 per ft., 8 in. $1.3125 per ft.; laying pipe, to M. A. Gammino, Valley St., Providence, R. I., Contr. 1, $6,760, Contr. 2, $6,280; valves and hydrants, to Eddy Valve Co., Waterford, N. Y. Engrs. est. $40,000. Noted Aug. 10.

R. I., Scituate—Water Supply Bd., Providence, building tunnel portion of Scituate Aqueduct, to Keystone State Constr. Co., 210 South 13th St., Phila., $1,318,340. Noted Sept. 7.

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ocean Parkway, Concourse Dr. and Surf Ave., etc., here, to C. De Blasio, 339 7th Ave., Mt. Vernon, $22,919. Noted Sept. 7.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Bloomfield, Cannon, Drake, Hughes, Meredith, Morrill and South Aves., etc., here, to N. De Stefano, 257 Glenn Ave., Tompkinsville, $66,-669. Noted Sept. 7.

N. Y., Waterville—Bd. Water Comrs., concrete spillway and rein.-con. flume, to L. D. Hokerk, Washington Mills $11,174. Noted Aug. 31.

Fla., Quincy—Improving water and light plant to Burford, Hall & Smith, 3rd Natl. Bank Bldg., Atlanta, Ga., $40,000. Noted Aug. 1.

O., Cleveland—Underpinning filters at Division Ave. pumping station by placing 18,690 lin.ft. premolded sectional concrete piles, to Stange & Walsh, Baldwin Reservoir, $66,897. Noted Sept. 7.

O., Lyndhurst (near Cleveland)—Furnishing and laying 10,077 ft. 12-16 in. c.i. mains, to Martin & McDace, 1452 West 98th St., Cleveland, $51,754. Noted Sept. 7.

Ill., Martinsville—Bd. Local Impvts., 8 mi. of 4-6 and 8 in. c.i. mains, incl. valves, specials and fire hydrants, to Foulkes Contg. Co., 705 Ohio St., Terre Haute, Ind., $54,363. Noted Aug. 3.

Wis., Benton—For 30,000 gal. steel water tank on stone tower incl. pipe and valve connections, to Chicago Bridge & Iron Co. 37 West Van Buren St., Chicago. Engrs. est. $25,000. Noted June 22.

Wis., Madison—Pumping and sewage disposal machinery and equipment for pump house in Monona Park, to Duro Sales Co., 6 South Jefferson St., Dayton, O. Noted Aug. 3.

Wis., Platteville — Will build 1 story, 50 x 95 ft. boiler and pump house at water works, brick and steel, plain foundation, by day labor. $40,000. H. Kleinhammer, Platteville, archt.

Minn., Royalton—Deep well pump and accessories, to J. G. Robertson, 2542 University Ave., St. Paul, $3,124. Noted Aug. 24.

Mo., Eldon—Complete water system, to Dwight Chaplin, Wichita, Kan., (street address not available). $64,494.

Mo., Versailles—Complete water system, to Burt & Tripp, Herrington, Kan., $55,780. Noted May 11.

Que., Montreal—Water Works Bd. plans 12,750 ft. of 42 in. steel force main from St. Gabriel pumping station to Clarke Ave. H. A. Terreault, dir. pub. wks.

Ont., Port Credit—Slow sand filter, reservoir, and pumping station, to B. G. Moogk, Weston; c.i. mains, to Natl. Iron Corp., Cherry St., Toronto; chlorinating equipment, to Wallace & Tiernan, 73 Adelaide St. E., Toronto; overhead tank, to Des Moines Steel Co., Chatham. Total est. $45,000. Noted Aug. 17.

Ont., Port Elgin—Dredging and improving harbor, to W. Birmingham, Center St., Kingston. Engrs. est. $45,000.

Sewers

PROPOSED WORK

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., received no bids Sept. 8, repairs to outlet flume from Jamaica sewage disposal plant to creek flowing into Jamaica Bay. Noted Sept. 7.

Mich., Cadillac—Prepared plans sewage disposal plant, 1,000,000 gal. daily capacity, incl. 6 septic tank and 6 contact filter units, also miscellaneous minor structures. $25,-000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Neb., Lincoln—Plans 3,700 ft. of 54 in. brick and segmental block sewers north of fair grounds. $45,000. City will probably build by day labor. G. W. Bates, city engr.

Neb., Silver Creek — Plans sanitary sewers. $28,000. D. F. Davis, clk. Bruce & Grupe, Finance Bldg., Omaha, engrs.

Que., Outremont—Soon takes bids building sewers. $69,807. E. T. Sampson, city clk.

Ont., Burlington—Plans storm sewers in Brant St. $35,000. Prices wanted on materials. MacKay & MacKay, Home Bank Bldg., Hamilton, engrs.

Ont., Fort Erie—Plans sewerage system. $45,000. Prices wanted on all materials. A. E. Seaton, town engr.

BIDS DESIRED

N. Y., Rye—Sept. 20, by Village Trustees, certain pipe sewers and disposal works. G. Everett Hill, 45 7th Ave., New York, engr.; adv. this issue. Noted July 27.

N. J., Asbury Park—Sept. 15, by Twp. Com. of Neptune Twp., 75 South Main St., furnishing, delivering and constructing about 2,125 lin.ft. 6-8 in. vitr. sewers, also furnishing and laying about 236 lin.ft. 4 in. vitr. sewers; also by Sewerage Comrs. of Sewerage Dist. 2, Neptune Twp., 75 South Main St., furnishing, delivering and constructing about 21,267 lin.ft. 6-10 in. vitr. sewers, also furnishing and laying about 2,415 lin.ft. 4 in. vitr. sewer connections from main sewers to sidewalk lines. N. Rogers, engr.

Miss., Corinth—Sept. 26, at office of M. T. Sharp, city clk., complete electric light and power plant. T. E. Henry, mayor; adv. this issue.

O., Columbus—Sept. 23, by Franklin Co. sewers in Sewer Dist. Marion 1, Marion Twp., 3,134 ft. 24 in. vitr. or concrete pipe, 1,883 ft. 15 and 18 in. vitr. pipe, 16 manholes, etc., $25,000; Sewer Dist. Clinton 2, Clinton Twp., Contr. 12, 7,636 ft. 8 in. vitr. pipe and 26 manholes, $12,000; Sewer Dist., Clinton 2, Clinton Twp., Contr. 13, 36,724 ft. 8-24 in. vitr. pipe, 108 manholes, 60 cu. yd. concrete, etc., $65,000. E. G. Bradbury, 406½ South High St., engr.

Ind., Chesterton—Sept. 29, by Town Bd., constructing 6 mi. 6-30 in. pipe sewer. $160,000. Moore & Cole, South Bend, consult. engrs.; adv. this issue.

Wis., Ellsworth—Sept. 25, by Village Bd. constructing sewerage system. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., consult. engrs.; adv. this issue.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids Sept. 8, sewer in Brown Pl. from Grand St. to Whitlock Ave. N., from J. F. Clancy, Inc., 460 Lockwood St., Astoria, $27,433; Gustin Morris Contg. Co., Anabel Ave. and Creek St., $32,679; H. J. Mullen Contg. Co., Jamaica Ave. and 144th St., Jamaica, $35,947. Noted Sept. 7.

Pa., Phila.—Opened bids Sept. 7, sewerage pumping plant, from Jackson & Co., 119 South 4th St., $153,900; G. F. Dobbins Co., Phila., (street address not available), $230,000; McLean Contg. Co., Commercial Trust Bldg., $244,000.

Mich., Detroit—Opened bids (1) Gallagher Ave. Arm of Seven Mile Rd. Sewer, in Gallagher Ave. from Seven Mile Rd. to State Fair Ave., (2) Third Ave. Relief Arm in 3rd Ave. from Edison Ave. to alley north of Virginia Park, from J. Winterbottom, 18,524 John R St., (1) $118,828, R. D. Baker, 1631 Elmhurst Ave., (1) $97,-796 (2) $58,126; J. Porath, 745 Griswold St., (1) $125,874; W. Blanck & Co., 823 Ford Bldg., (2) $54,800, J. A. Mercier, 216 Hammond Bldg., (2) $54,882.

Mich., Detroit—Opened bids 11,396 ft. Connors Ave. and Public Park Site Sewer from Warren Ave. to Lynch Rd. Sewer, (1) double barrel section, (2) arch section, from T. A. Gillespie, 50 Church St., New York, (1) $1,246,028 (2) $1,113,466; Nash Bros., 10 South LaSalle St., Chicago, (1) $1,517,895 (2) $1,253,546; Walbridge-Aldinger Co., 2356 Penobscot Bldg., (1) $1,618,660; Lennane & McIlvenna, 1205 Book Bldg., (2) $1,244,520.

Mich., Lincoln Park (Wyandotte P. O.)—For 8,030 ft. vitr. crock sewer in Emmons Blvd., incl. 8, 12, 15, 18, 24, 42 and 48 in. pipe, from Callahan & Grosse, Lincoln Park, $38,191; Hammen & Co., 4612 Woodward Ave., Detroit, $38,654.

CONTRACTS AWARDED

N. Y., Rye—Village Trustees, c.i. main sewer, to B. Pizzimenti, Hyattsville, Md., $45,975. Noted Aug. 24.

N. J., Little Falls—Little Falls Twp., extending sewerage system, to Sanitary Constr. Co., 66 Beckwith Ave., Paterson, $4,196; enlarging sewage disposal works and pumping station, to Mahlon Averill, 196 Woodside Ave., Newark, $18,939 and $9,137 respectively. Noted Aug. 31.

N. J., Newark—Passaic Valley Sewerage Comrs., 128 Market St., Saybrook Pl. Local Sewer connection, to O'Gara Constr. Co., 242 Market St., $74,150. Noted Aug. 10.

Md., Baltimore—See "Buildings."

Mich., Springwells—For Sect. 15 trunk sanitary sewer, 3,068 ft., to J. Porath, 745 Griswold St., Detroit. $70,743. Noted Sept. 7.

Wis., Madison—See "Waterworks."

Wis., Milwaukee — Intercepting sewer from Humboldt Ave. and Lake St. to Adams Ave. on Port Washington Rd., to Wenzel & Henoch Co., 498 27th St., $269,183. Noted Aug. 31.

Wis., Rice Lake—West Side sewerage system, incl. 10,637 lin.ft. 8-18 in. vitr. pipe, thirty-one 5 ft. manholes, twenty 4 ft. extra depth manholes, 1 concrete outlet, one Imhoff tank and one sludge bed, to Pastoret Constr. Co., 308 Sellwood Bldg., Duluth, Minn., $21,000. Noted Aug. 17.

Wis., Two Rivers—Furnishing pipe and laying sanitary and storm sewers in Washington, Monroe and 19th Sts., to Van Doeselaar-Cevol Co., 1712 North 2nd St., Sheboygan, $26,127. Noted Aug. 24.

Minn., Staples—Sewerage system, 15,000 lin.ft. pipe, to Roise Constr. Co., 2208½ West 2nd St., Duluth, $25,000.

N. D., Bismarck—Trunk line sanitary sewer in Front St., to F. G. Grambs, Bismarck, 380 ft. 30 in. pipe $6.46 per ft., 4,480 ft. 36 in. pipe $6.95 per ft.

Mo., Aldon—Complete sewerage system, to James & Anderson, Woodriver, Ill., $19,-469. Noted April 6.

Wash., Kelso—See "Streets and Roads."

Que., Montreal—To R. Ottavi, 91 Benoit St., 709 yd. 2 x 3 brick sewer Des Marteaux St. from Souligny to Marseille Aves. $9,980, 716 yd. 2 x 3 brick sewer in Bernard Blvd. from Souligny to Marseille Aves. $9,788; to A. Thezand, 885 St. Catherine St. E., 705 yd. 2 x 3 brick sewer in Taillon St. from Souligny to Marseille Aves. $9,168; to Toussaint Bros., 383 St. Denis St., 976 yd. 2 x 3 ft. brick sewer and 34 yd. 30 in. sewer in Paul Pau Ave. from Notre Dame to Marseille Aves., $16,523.

Bridges

PROPOSED WORK

Ky., Independence — Montgomery Co. Comrs. soon take bids 2 deck girder bridges on Coffeyville, Cherryvale Rd., Federal Aid Project 37, Sect. E, one to have two 50 ft., two 60 and one 70 ft. spans, other two 40 ft. spans. $55,000. H. K. Hibbard, co. engr.

Ohio—W. H. Duffy, dir. Pub. Serv., Columbus, rejected bids opened Sept. 5, (because of technicality) for Rathbone Bridge, 1,100 ft. long, across Scioto River in Concord Twp., Delaware Co.. New Legislature necessary. Noted Aug. 24.

O., Akron—Plans steel girder bridge with 2 roadways total width 84 ft., and 2 sidewalks, on Exchange St. over tracks of Baltimore & Ohio and Erie Railroads, etc., $350,000. This is part of Akrons $6,000,000 grade elimination program. Railway engineers and city officials approved plans submitted by L. Trimble, engr. of Erie R.R., 50 Church St., New York City, for above project; also steel girder encased in concrete, to carry 5 tracks over Forge St., 3,000 cu. yd. concrete, $245,000. City, Pennsylvania and Baltimore & Ohio Railroads will ap-

Bridges (Continued)

propriate toward cost of latter project and bids for same will be received early in 1923. E. A. Kemmler, Delaware Bldg., engr.

Mich., Port Huron—Pere Marquette Ry., Union Depot, Detroit, plans bridge over Black River, one 133 ft. truss span, one 82 ft. through plate girder and one 39 ft. deck plate girder span, concrete abutments, one 8 x 35 ft. and one 7 x 30 ft. pier. F. H. Alfred, pres.

Wis., Appleton—Making new plans rein.-con. or steel bridge on Lawe St., $60,000, Harrington, Howard & Ash, 1012 Baltimore St., Kansas City, Mo., engrs.; also 1,200-1,500 ft. steel and concrete viaduct on Cherry St.

Calif., San Anselmo—Election soon to vote on $70,000 bonds constructing 6 rein.-con bridges.

Que., Montreal—Voted $50,000 bonds for preliminary survey work of the St. Lawrence River prior to construction of Montreal-Longueil Bridge, to cost $5,000,000. W. L. McDougall, chn. Bd. Harbor Comrs. R. Harvie, ch. engr.

BIDS DESIRED

Mass., Lowell—Sept. 20, by Bd. of Pub. Service, City Hall, rebuilding Lundberg St. Bridge over Boston & Maine R.R. Fay, Spofford & Thorndike, 200 Devonshire St., Boston 9, engrs.; adv. this issue.

Connecticut—See "Streets and Roads."

S. C., York—See "Streets and Roads."

Wis., Appleton—Sept. 21, by Harrington, Howard & Ash, engrs., Orear Leslie Bldg., Kansas City, Mo., Lawe St. Bridge over Fox River, 409 ft. long, with thirteen 31 ft. 5 in. spans, 20 ft. roadway, one 6 ft. sidewalk; Cherry St. Bridge over Fox River, 860 ft. long, 32 ft. roadway, 7 ft. sidewalk.

Colorado—See "Streets and Roads."

Calif., Los Angeles—Sept. 29, by Bd. Harbor Comrs., Room 312, Byrne Bldg., superstructure of double leaf bascule bridge on concrete piers, Badger Ave., incl. 3 truss double leaf heel trunnion type Strauss bascule span, 220 ft. c. to c. of main trunnions with 50 ft. tower at each end, will carry 2 railroad tracks, 2 roadways and 1 sidewalk, and connect Terminal Island with mainland at Los Angeles Harbor. Spec. 402. J. W. Ludlow, acting harbor engr.

Calif., Sacramento — Oct. 16, by Bd. Supervs. Sacramento Co., constructing Steamboat, Slough Bridge, 601,000 lb. structural steel, 49,530 lb. machinery for bascule span, 294 cu.yd. 1-3-6 concrete for counterweights, 14,400 lb. reinforcing, 936 cu.yd. 1-2½-5 concrete in piers and abutments, etc.; Paintersville Bridge, 1,019,500 lb. structural steel, 55,500 lb. machinery, 308 cu.yd. concrete for counterweight, 15,000 lb. reinforcing, 1,060 sq.yd. flooring, 110 cu.yd. Class A 1-2-4 concrete, 500 cu.yd. earth fill, 1,124 yd. Class A 1-2½-5 concrete, etc. H. W. Hall, clk.

BIDS RECEIVED

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on (1) State Project 528, Davidson Co., (2) State Project 589, Rockingham Co., (3) State Project 858, Mitchell Co., (4) State Project 882, Cleveland Co., (5) State Project 784, Wilkes Co., (6) State Project 712, Ashe Co., (7) State Project 673, Rowan and Davidson Counties, (8) State Project 608, Anson Co., (9) State Project 157 B, Martin Co., (10) State Project 157 A, Martin Co., from J. A. Peterson, Montgomery, Ala., (street address not available), (1) $65,556, (2) $96,091, (8) $69,234; J. A. Brinkeley, Thomasville, (1) $67,887; Atlantic Bridge Co., Roanoke, Va., (1) $68,819, (2) $95,293, (3) $47,103, (8) $77,723, (9) $45,480; Cornell-Young Constr. Co., 210 South Tryon St., Carlotte, (2) $103,467, (7) $179,688; R. M. Thurmond, Lynchburg, Va., (3) $38,471; Booz-Lloyd & Co., Marion, (3) $48,831; J. A. Kreis, Holston Bank Bldg., Knoxville, Tenn., (4) $39,045; Batson Cook Co., West Point, Ga., (4) $39,811, (9) $37,845, (10) $35,911; Austin Bros. Bridge Co., Hurt Bldg., Atlanta, Ga., (4) $40,077; D. J. Brookshire & Co., North Wilkesboro, (5) $29,492; E. P. Robinson, North Wilkesboro, (5) $29,537; Stearns Bros. Co., Statesville, (5) $31,990; J. T. Plott, Greensboro, (6) $81,324; Luten Bridge Co., 405 East 4th Ave., Knoxville, Tenn., (6) $83,016, (7) $169,524; Williams Bros. Constr. Co., Roanoke, Va., (6) $87,720; Hardaway Constr. Co., Charlotte, (street address not available), (7) $159,180; General Roads & Drainage Constr. Co., Liberty Bank Bldg., Columbia, S. C., (8) $79,115; J. A. Marrow, Clarksville, Va., (9) $40,215, (10) $34,161; Boner & Hostitler, Williamston, (10) $40,884. Noted Aug. 17.

Ohio—See "Streets and Roads."

BRIDGE—BALLSTON SPA, NEW YORK

Following are lowest three bids opened Aug. 16, by Bd. Supervs. Saratoga Co., for constructing steel highway bridge at north end of Saratoga Lake, (A) Brann & Stuart Co., Inc., 310 Commercial Trust Bldg., Phila. (awarded contract); (B) Independent Bridge Co.; (C) T. F. McGovern. The unit bids were as follows:

	A	B	C
Removal of old structure (lump sum)	$2,200.00	$2,000.00	$1,500.00
300 cu.yd. concrete in pier bases	33.30	42.00	54.00
275 cu.yd. concrete in pier shafts	43.56	20.00	40.00
250 cu.yd. concrete in abutments	31.24	30.00	40.00
4,000 lin.ft. piles below bases	0.55	1.25	1.00
1,500 lin. ft. pile cut-offs	0.30	0.30	0.25
940,000 lb. structural metal	.0657	0.07	0.06
380 cu.yds. concrete slabs	25.00	22.00	25.00
65,000 lb. reinforcing steel	0.048	0.03	0.65
Removal of debris (lump sum)	2,095.00	1,000.00	500.00
Extended totals	$111,102	$111,460	$113,700

BRIDGE—ROCHESTER, N. Y.

Bids were opened Aug. 9, by city, for constructing South Avenue Bridge, (A) Engineer's Estimate; (B) Seneca Eng. Co., Carter Bldg., (awarded contract); (C) A. Fredericks & Sons, 710 Lake Ave.; (D) T. Holahan, 1568 East Main St.; (E) Whitmore, Rauber & Vicinus, Inc. The unit bids were as follows:

	A	B	C	D	E
Removing present bridge (lump sum)	$1,000.00	$500.00	$1,000.00	$5,000.00	$1,000.00
300 cu.yd. removing present abutment and walks	5.00	4.00	5.00	4.00	5.00
2,000 cu.yd. earth excavation	1.25	1.35	1.50	1.00	1.25
200 cu.yd. rock excavation	4.50	3.50	4.00	4.00	4.50
150 cu.yd. underpinning abutment masonry	19.00	17.00	21.00	16.00	19.00
10 cu.yd. class "A" concrete in place	25.00	25.00	26.00	25.00	25.00
350 cu.yd. class "B" concrete in place	19.00	19.00	20.00	16.00	19.00
1,000 cu.yd. class "C" concrete in place	10.00	11.00	9.75	9.00	10.00
150 cu.yd. class "D' concrete in place	8.00	8.00	8.00	7.00	8.00
405,000 lb. structural steel in place	0.0425	0.0485	0.05	0.06	0.051
10,000 lb. reinforcement steel in place	0.0425	0.045	0.0425	0.06	0.0425
1,000 lb. castings in place	0.07	0.07	0.07	0.08	0.07
800 sq.yd. asphalt paving and binder course	1.65	1.65	1.75	1.10	1.65
220 sq.yd. new medina stone paving including sand foundation in place	4.10	4.00	4.40	3.50	4.10
500 sq.yd. relaying stone pavement in approach	1.50	1.50	1.50	1.20	1.50
140 lin.ft. medina curb in place	1.75	1.75	2.00	1.50	1.75
100 lin.ft. medina curb relayed	1.00	1.00	1.00	0.90	1.00
1,000 sq.ft. side walk except on bridge, including grading in place	0.20	0.22	0.20	0.17	0.20
Maintaining traffic (lump sum)	5,000.00	2,500.00	2,000.00	6,000.00	5,500.00
Changing end post L.V.R.R. bridge (lump sum)	2,000.00	1,200.00	1,900.00	2,100.00	2,000.00
Extended totals all items (32 items)	$57,867	$56,642	$58,795	$60,735	$61,809

FILTRATION PLANT—SACRAMENTO, CALIF.

Following is Engineer's Estimate and lowest three bids opened Aug. 24 by city for constructing rapid sand filtration plant and appurtenances, Contr. No. 24 (A) Engineer's Estimate; (B) Mathews Constr. Co., Forum Bldg.; (C) R. McLeran & Co., Hearst Bldg., San Francisco; (C) K. E. Parker Co., and Healy-Tibbitts Co., 519 California St., San Francisco.

	A	B	C	D
Sedimentation basins, coagulation tanks and appurtenances—structures (lump sum)	$261,675.00	$218,825.00	$246,523.00	$244,000.00
Sedimentation basins, coagulation tanks and appurtenances—equipment (lump sum)	50,554.00	48,461.00	46,583.00	45,000.00
Head house and filters—structures (lump sum)	168,710.00	140,100.00	166,293.00	156,000.00
Head house and filters—equipment (lump sum)	86,040.00	92,756.00	93,022.00	95,000.00
Sump—structure (lump sum)	19,662.00	18,758.00	17,687.00	23,000.00
Coagulant building—structure (lump sum)	44,665.00	49,615.00	48,800.00	55,000.00
Coagulant building—equipment (lump sum)	43,800.00	47,951.00	42,615.00	47,000.00
Outside piping (lump sum)	42,563.00	25,492.00	26,000.00	25,000.00
Outside wiring and lighting (lump sum)	9,418.00	14,100.00	14,640.00	13,000.00
General fill (lump sum)	75,000.00	82,750.00	97,335.00	100,000.00
Grading (lump sum)	13,000.00	12,380.00	19,720.00	22,000.00
Gutters, curbs, roads, walks and miscellaneous structures (lump sum)	24,760.00	20,769.00	24,100.00	35,000.00
Total of items 1-12 inclusive	$839,847.00	$771,957.00	$843,318.00	$860,000.00
Extra excavation (per cu.yd.)	$2.50	$2.25	$1.50	$1.50
Extra rolled fill (per cu.yd.)	4.00	4.25	1.75	4.00
Extra concrete—class A (per cu.yd.)	10.50	16.00	13.00	25.00
Extra concrete—class B (per cu.yd.)	9.50	14.00	12.00	20.00
Extra forms (per sq.ft.)	0.18	0.43	0.20	0.18
Extra reinforcing steel (per lb.)	0.05	0.06	0.05¼	0.06
Structures ready for fill	Mar. 15, 1923	June 30, 1923	Aug. 1, 1923	Dec. 1, 1923
All fill completed by	Sept. 1, 1923	Oct. 31, 1923	Dec. 1, 1923	Feb. 1, 1924
All structures ready for operation	Oct. 15, 1923	Nov. 30, 1923	Dec. 15, 1923	Feb. 15, 1924

Calif., Mariposa—Mariposa Co., 180 ft. steel span, concrete piers and abutments, alternate bids on (a) 108 ft. timber or (b) concrete approaches and floor, from Security Bridge Co., Ogden, Utah (street address not available), (a) $19,988, (b) $23,500; Union Constr. Co., Balfour Bldg., San Francisco, (a) $22,171, (b) $23,783; A. W. Kitchen Co., 110 Market St., San Francisco, (a) $23,805, (b) $28,767.

CONTRACTS AWARDED

Mass., Attleboro—Dept. Pub. Wks., constructing 2 concrete bridges, one on Bank St. over Bungay River, other on Water St. over Ten Mile River, to Engineering Service & Constr. Co., 220 Devonshire St., Boston. Noted Aug. 10.

Mass., West Warren—Warren Cotton Mills, one 50 ft. rein.-con. span, to replace old wooden bridge over raceway, at plant, to Newton & Haley, Springfield. Engrs. est. $30,000.

N. Y., La Salle—Niagara Town Bd., 100 ft. steel girder bridge, 32 ft. roadway, over Cayuga Creek, to Standard Eng. Co., Toledo, O. (street address not available), $25,775. Engrs. est. $25,000. Noted Aug. 17.

N. Y., Richland—Town Clerk of town of Richland in village of Pulaski, rein.-con. arch and steel girder bridge across Salmon River, to G. W. Thompson, Gurney Bldg., Syracuse, $61,300. Noted Aug. 17.

N. J., Camden—Philadelphia & Reading R.R., Reading Terminal, Phila., reconstructing bridge, 5,000 ton stone, 3,000 cu. yd. sand and 150 ton reinforcing bars, Jackson St. and Philadelphia & Reading R.R., here, to C. T. Bower, Tulip and Somerset Sts., Phila. Engrs. est. $35,000.

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 888, Yancey Co., to The Luck Co. Sylva, $42,980. Noted July 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, bridges in following counties:

Guernsey Co., Sect. "I" National Rd., concrete beam, to Noble Bridge Co., Mt. Vernon, $9,076.

Guernsey Co., Sect. "K" National Rd., rein.-con. slab and approaches, to Noble Bridge Co., Mt. Vernon, $9,565.

Crawford Co., Sect. "G" Bucyrus-Cresline Rd., concrete arch and approaches, to Le Hainey & Auth, Toledo, (street address not available), $12,487.

Bridges (Continued)

Butler Co., Sect. "C" Hamilton-Scipio Rd., concrete beam to V. F. Hughes, Hamilton, $4,169.

Butler Co., Sect. "J" Hamilton-Middletown Rd., concrete girder, to C. C. Johns, Middletown, $1,797. Noted Sept. 7.

Mich., Marine City—State Hy. Dept., Lansing, Bridge 770901, substructure for 134 ft. 4 in. swing bridge, 24 ft. roadway, incl. 1,020 cu.yd. rein.-con., 99,220 lb. reinforcing, to Lyons Constr. Co., Dearborn, $48,641. Noted Aug. 24.

Mich., Mottville — State Hy. Dept., Lansing, Bridge 781102, with three 90 ft. concrete girders, 20 ft. roadway, to Smith & Nichols, Hastings, $33,420. Noted Aug. 10.

Wis., Wauwatosa—City and Milwaukee Co., 80 ft. rein.-con. arch span, 40 ft. roadway, two 11 ft. sidewalks, over West Main St., to Stein Constr. Co., 204 Grand Ave., Milwaukee, $34,370. Noted Aug. 31.

Ia., Oskaloosa—Mahaska Co., 21 culverts and extensions, to D. B. Russell, Oskaloosa, $11,225, concrete figures $21.88 per cu.yd.; 1 high truss, one I-beam, 2 pony trusses, to L. R. Gabriel Co., Muscatine, $32,288, concrete figures $18.84 per cu.yd.; 17 culverts and extensions, to C. A. Dickey, Hedrick, $9,200, concrete figures $17.75 per cu.yd.

Ia., Scott City—Scott Co., 1 high truss to Des Moines Steel Co., 5th and Tuttle Sts., Des Moines, $11,982, concrete figures $27.12 per cu.yd.; 31 culverts and extensions, to Federal Bridge Co., 1002 Bankers Trust Bldg., Des Moines, $20,593, concrete figures $26.54 per cu.yd.; 18 culverts and extensions, 1 pony truss, to Lundgren-Reis Co., 65 College St., Des Moines, $25,790, concrete figures $26.09 per cu.yd.

Minn., Two Harbors—See "Streets and Roads."

Calif., Riverside—Bd. Supervs. Riverside Co., 5 span ornamental concrete bridge over Santa Ana River at foot of Mt. Rubidoux, to De Waard & Cobham Constr. Co., San Diego, (street address not available), $99,500.

Ont., Baden—Waterloo Co., steel superstructure, concrete abutments in Wilmot Twp., steel work to J. J. Hill, Mitchell; concrete work to A. Fraser, New Hamburg. Engrs. est. $35,000.

Dams

PROPOSED WORK

S. D., White River—Voted $25,000 bonds for dam in White River, 100 lin.ft. long, 12 ft. high, concrete or logs and stone, with 200 ft. dike, also power house and hydro-electric plant. T. H. Green, city clk.

CONTRACTS AWARDED

Wis., Oconto Falls—Union Mfg. Co. concrete and steel dam to increase power, to W. E. Ule, 603 Clark St., Stevens Point. Engrs. est. $25,000.

B. C., Elko—See "Industrial Works."

Excavation, Drainage, Irrigation

PROPOSED WORK

La., Alexandria—Soon takes bids building drainage system and improving 7th St. ditch. $100,000.

Wis., Calamus—Dodge Co. Drainage Bd. making plans 3 mi. tile drain, 1 mi. each of 8, 12 and 18 in. drain tile, incl. 6,000 acres. $30,000. L. M. Schindler, 717 Clark St., Appleton, engr.

Calif., Rio Vista—Recl. Dist. 2060 having surveys made raising levees, 4 mi. bank protection, constructing drainage ditches. Plan to purchase Hastings Tract Co. lands and make above improvements. H. S. Bonte, Balfour Bldg., San Francisco, engr.

Ont., Barrie—Simcoe Co. plans to dredge Nottawasaga River and reclaim 20,000 acres flooded lands. $50,000. Engineer, c/o Provincial Dept. Pub. Wks., Toronto.

BIDS DESIRED

N. Y., New York—Sept. 18, by J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., North River, dredging Chelsea Piers, Manhattan Boro.

Delaware—Sept. 27, by State Hy. Dept., Dover, excavating at Camden, Contr. CK-8A; adv. this issue.

Fla., Ft. Lauderdale—Sept. 19, by City Council, 8,400 lin.ft. canal, 35 ft. bottom, 81,000 cu.yd. earth and 9,000 cu.yd. rock excav. $47,500. H. C. Davis, Ft. Lauderdale, engr

Ia., Nevada—Sept. 20, by M. R. Purkhiser, aud. Story Co., constructing D. D. 3, 53,840 lin.ft. 8-28 in. tile, 30 inlets, for Story and Marshall Counties. $25,000. W. A. Olson, Nevada, engr.

Mo., Ravenwood—Sept. 21, by F. H. Casteel, secy. Jackston Twp. D.D. at Platte Valley Bank, constructing main ditch 456,000 cu.yd., 8 laterals, 61,700 cu.yd. and 60 acres clearing. C. E. Jacoby Eng. Co., 527 Shukert Bldg., Kansas City, engr.

Calif., Merced—Sept. 22, by Dirs. Merced Irrigation Dist., constructing Fairfield Canal system, 7.4 mi. laterals and 8.4 mi. main canal, 67,300 cu.yd. excav. and 36,700 cu. yd. borrow. R. C. Starr, Merced, ch. engr.

CONTRACTS AWARDED

N. J., South Amboy—Pennsylvania R.R., Broad St. Sta., Phila., dredging 180,000 cu.yd. South Amboy Harbor, to Morris & Cummings Dredging Co., 17 State St., New York City, $0.195 per cu.yd.

Ill., Bloomington—Trustees Bloomington Normal Sanitary Dist., 404 Unity Bldg., constructing open channel work, to W. F. Sternberg Co., Piper City, $22,000. Noted July 20.

Ia., Garner—Hancock Co., D. D. 114, 10,300 lin.ft. open ditch, 54,216 cu.yd. excav., 29,454 lin.ft. 6-24 in. tile, to E. L. Hatten, Britt, excav. $0.20 per cu.yd.; Clement Products Co., Mason City, tile $16,420; C. Hampe, Britt, tile labor $11,899.

Mont., Great Falls—Canals, etc.—U. S. Recl. Service, Sun River Project, 118,000 cu.yd. canal excav., 21,000 cu.yd. excav. for structures, 1,850 cu.yd. rein.-con., 2,500 lin.ft. vitr. and concrete pipe, 171,000 lin.ft. lumber, etc. to J. B. Roberts, Simms, H. M. Morris, Ft. Shaw, Jenkins Bros., Fort Shaw, E. L. Burgess, Ft. Shaw and F. Coolidge, Laramie, Wyo., total $60,000. Noted June 29.

Ore., Grants Pass—Grants Pass Irrigation Dist., excavating main canal, 4 mi. new canal and enlarging old canal 2 mi., 167,000 cu.yd. dry earth and 13,000 cu.yd. dry rock excav., to P. Welch, Medford, $73,580. Engrs. est. $100,000. Noted Aug. 17.

Calif., Marysville—Dredging Ellis Lake, 130,000 cu.yd. excav., to J. D. Hutchison, Rio Vista, $29,000. Noted June 29.

Calif., Oroville—Drainage Dist. 200, to G. Pollock Co., Forum Bldg., Sacramento, 4 or 5 mi. main canal, 5 to 6 ft. deep, 15 ft. wide, and 5 mi. main canal, 5 to 6 ft. deep, 10 ft. wide, at $0.23; 5 mi. laterals, $0.19. Work involves 261,465 cu.yd. excav.

Streets and Roads

PROPOSED WORK

New York—H. S. Sisson, comr. State Hy. Dept., Albany, received no bids Aug. 29, improving 3.57 mi. Highway 8133 Morehouseville-Piseco, Part 3, Hamilton Co., $128,918; repairing 2.5 mi. Repair Contr. 3021 Highway 742, Steuben Co., $77,273. Noted Aug. 17.

N. Y., Auburn—Plans paving Lake Ave., Logan, Lansing and Franklin Sts., $25,000; also 1,000 ft. culvert for Wood Creek in 9th Ward, $12,000-$14,000. M. F. Dullea, city engr.

N. Y., Lackawanna—Plans paving Abbott Rd. $54,000. B. McDonnell, comr. Pub. Wks

N. Y., Niagara Falls—City Manager soon takes bids paving 958 ft. James Ave. from Lewiston Rd. to Washington St., 30 ft., granite, wood block, sheet asphalt, brick or asphaltic concrete, $26,400. W. B. Bennett, city engr.

N. Y., Niagara Falls—Plans paving 2,039 ft. alley from Niagara to Ferry Aves., 15 ft., granite, wood block, asphalt, sheet asphalt, asphaltic concrete or brick, $31,575, estimate based on granite block; 627 ft. South Ave., 24 ft., $14,125. W. B. Bennett, city engr.

N. Y., Seneca Falls—Plans paving Beryl Ave., Bridge extension, South Park and Daniel Sts., over 1 mi. long. $45,000. W. S. Lozier, Rochester, (street address not available), engr.

Fla., West Palm Beach—Bd. Comrs. Palm Beach Co. rejected bids unopened shell paving Ocean Blvd. on Jupiter Island and resurfacing road from county line to Sewells Point, total length 8½ mi. New bids will be called. R. F. Goodman, West Palm Beach, engr. Noted July 27.

Fla., West Palm Beach—Comrs. Palm Beach Co. rejected bids constructing 5 mi. Dixie Highway north of Jupiter Bridge. New bids and specifications will be called. R. F. Goodman, West Palm Beach, engr.

O., Dayton—Plans paving 1,800 ft. Dow St. from Riverview to Grand Aves., 30 ft., 3,000 lin.ft. cement curb and gutter, 5,000 sq.yd. vitr. brick, concrete or Kentucky rock asphalt on concrete. $28,601. I. E. Houk, city engr.

Ind., Indianapolis—Marion Co. plans concrete paving 2.8 mi. S. A. Furner Rd., 20 ft., 26,895 sq.yd. concrete, 10,200 cu.yd. excav., 3,300 cu.yd. fill, 199 cu.yd. concrete for concrete bridge, etc. $83,638. J. J. Griffith, Indianapolis, engr.

Mich., Detroit—Plans paving 4,060 sq.yd. Leuschner Ave. from Hamtramck city limits to Mt. Elliott Ave., $20,300, 3,400 sq. yd. Bordeau Ave. from Belleterre to Nardin Aves., $17,220, 2,800 sq.yd. Marcus Ave. from Mt. Elliott to Foster Aves., $13,770, 4,350 sq.yd. Wyoming Ave. from Grand River to Fullerton Aves. $21,700, 4,000 sq. yd. Genesee Ave. from Joy Rd. to Chicago Blvd., $20,120, 4,600 sq.yd. Brentwood Ave. from Woodward to Charleston Aves., $28,240, all with 3½ in. sheet asphalt on 8 in. concrete, also 5 alleys with one course concrete, totaling $19,270. J. W. Reid, city engr.

Mich., Holland—Plans grading and paving 4,000 ft. Main St., 10,575 sq.yd. sheet asphalt, 3,470 cu.yd. excav. $45,000.

Wis., Johnson Creek—Rejected bids received Aug. 11, concrette paving Milwaukee and Watertown Sts. Will readvertise later. Parsons & Orbert, 216 West Water St., Milwaukee, engrs. Noted Aug. 3.

Kan., El Dorado—Butler Co. Comrs. soon take bids graveling 6.258 mi. road from Augusta to Gordon, Sect. A, Federal Aid Project 124, 18 ft. $75,000. H. D. Barnes, co. engr. Noted June 15.

Neb., Harvard—Plans 75,000 sq.ft. paving. Grant, Fulton & Letton, Bankers Life Bldg., Lincoln, engrs.

Neb., Lincoln—Lancaster Co. soon takes bids curbing, guttering and paving with vertical fiber brick, asphalt, concrete or asphaltic concrete 4,000 lin.ft. O St. from 44th to 56th Sts. A. H. Edgren, co. engr.

Missouri—State Hy. Dept., Jefferson City, plans 10.6 mi. road north Kansas City to Liberty, 24 ft., Federal Aid Project 99, Clayton Co., 21,200 cu.yd. roadway excav., 113,341 sq.yd. 1 course concrete pavement, 18 ft. wide, 7 in. at center and edges; 12.32 mi. road from Gallatin southwest and northwest, 24 ft., State Aid Project 20.206, Davies Co., 54,497 cu.yd. earth excav., 10,261 cu.yd. borrow, 562.96 cu.yd. concrete masonry, etc.; 2.381 mi. road from Lin Creek northwardly, 24 ft. State Aid Project 20.195 Camden Co., 13,155 cu.yd. earth excav., 1,219 cu.yd. borrow, 5.4 cu.yd. concrete masonry, etc.; 10.378 mi. road from Buffalo northwest and northeast, 24 ft., State Aid Project 20.183, Dallas Co., 34,828 cu.yd. earth and 800 cu.yd. rock excav., 9,565 cu.yd. borrow, 505.6 cu.yd. concrete masonry, etc.; 4.543 mi. road from Ava southeastwardly, 24 ft., State Aid Project 20.196, Douglas Co., 25,113 cu.yd. earth and 1,915 cu.yd. rock excav., 41.7 cu.yd. concrete masonry, etc.; 3.138 mi. road south of Lindell, 24 ft., State Aid Project 20.170, Grundy Co., 13,836 cu.yd. earth excav., 1,692 cu.yd. borrow, 237.5 cu.yd. concrete masonry; 0.94 mi. road from Richmond northwardly, 24 ft., State Aid Project 20.202, Ray Co., 5,914 cu.yd. earth and 694 cu.yd. rock excav., 200 cu.yd. borrow, 33.9 cu.yd. concrete masonry, etc. B. H Piepmeier, state highway engr

Mo., Springfield—Plans paving Kickapoo St. from Elm to Grand Sts., 20,000 sq.yd. tarvia on stone, G. W. Culler, 998 North Jefferson St., engr.

Calif., Bakersfield—Had plans prepared improving Kern St. between Jackson and Lake Sts., 813 lin.ft. concrete curb, 2,672 sq.ft. concrete gutter, 33,952 sq.ft. 1½ in. warrenite bitulithic on 3½ in. asphaltic concrete; Oregon St. between Baker and Beale Sts., 3,259 sq.ft. concrete gutter, 48,121 sq. ft. 1½ in. warrenite bitulithic on asphaltic concrete; portions of B, F, G, H, I, 7th, 10th, 14th and 16th Sts., Dist. 459, 4,032 lin.ft. concrete curb, 23,883 sq.ft. concrete walks. W. D. Clark, city engr.

Calif., Bakersfield—Rejected bids improving Oak St. New proceedings will be started under specifications to provide 1½ in. warrenite bitulithic on 4 in. asphaltic concrete. W. Clark, city engr. Noted July 27.

Calif., Chico—Plans surfacing 30 to 40 blocks, probably asphaltic concrete. F. S. Robinson, city engr.

Calif., Daly City—Had plans prepared improving various streets 87,910 sq.ft. 1½ in.

Streets and Roads (Continued)

topeka on 4 in. concrete, 6,349 lin.ft. concrete curb and gutter, 2,165 lin.ft. 4 in. vitr. lateral sewers, 880 sq.ft. cement walks, 4,000 cu.yd. grading. G. A. Kneese, City Hall, Redwood City, engr.

Calif., Fresno—Had plans prepared improving Mono St. between Van Ness and P Sts., 91,759 sq.ft. grading, 85,879 sq.ft. asphaltic pavement, 5,645 sq.ft. concrete gutter, 3,339 lin.ft. concrete curb, etc. W. Stranahan, city engr.

Calif., Oroville—Supervs. Butte Co. received no bids Aug. 31, surfacing ¾ mi. Neal Rd. with crushed rock, surfacing Laurel St., Stirling City, asphalt macadam on 2 in. base. H. H. Hume, co. surv. Noted Aug. 24.

Calif., Rio Vista—Soon takes bids improving various streets in Dist. 1, 2 and 3. To exceed $25,000. C. E. Sloan, Santa Fe Bldg., San Francisco, engr.

Calif., San Diego—Having plans prepared grading, curbing, laying sidewalks and paving Lincoln St. from Oregon to Bancroft Sts., 4,871 lin.ft. cement curbing, 22,441 sq. ft. cement sidewalks, 16,188 sq.yd. bituminous macadam 1½ in. thick; Granada and Redwood Sts., 523 lin.ft. cement curbing, 1,952 sq.ft. cement sidewalks, 11,105 sq. yd. 1½ in. asphaltic concrete on 2½ in. bituminous. F. A. Rhodes, City Hall, engr.

Calif., San Francisco—City and San Francisco Co. had plans prepared improving 27th, 28th, 29th and 30th Aves. between Ulloa and Vicente Sts., 6,101 cu.yd. excav., 1,706 cu.yd. fill, 570 lin.ft. 8 in. vitr. sewers, 4,800 lin.ft. concrete curb, 10,000 sq.ft. concrete and 86,000 sq.ft. asphaltic concrete pavement. $40,000. M. M. O'Shaughnessy, city engr.

Calif., Stockton—San Joaquin Co. having plans prepared improving Austin Rd., 5,000 cu.yd. grading, 7,600 ton rock, 770 bbl. asphaltic oil; Central Ave. in Sumner House Tract, 2,500 cu.yd. grading, 4,200 ton rock, 308 bbl. asphaltic oil; Duncan Rd. between Waterloo and Linden Rds., 2,500 cu.yd. grading, 4,300 ton rock, 736 bbl. asphaltic oil; Louise Ave. in Sumner House Tract, 4,500 cu.yd. grading, 8,500 ton rock, 736 bbl. asphaltic oil; Bixler Rd. 444, 6,500 cu. yd. grading; Graham Rd. from Waterloo Rd. ¾ mi. east of Tokay School, 3,500 cu.yd. grading, 4,050 ton gravel; Quinsby Ave. between Lodi and Kettleman Lane, 2,500 cu.yd. grading, 5,472 ton rock, 525 bbl. asphaltic oil. F. E. Quail, co. surv.

Que., Montreal—Plan concrete sidewalks as follows: 569 ft. on Jules Verne Ave. $2,300, 285 ft. Baldwin Ave. $157, 3,700 ft. Dixon Ave. $1,931, 6,892 ft. St. Lawrence Ave. $43,472, 555 ft. Lacasse St. $1,766, 820 ft. Gounod St. $3,886, 245 ft. Des Voltigeurs St. $830, 761 ft. Bourbonniere Ave. $2,628, 520 ft. Villeray Ave. $2,676. Cement slab sidewalks 150 ft. on Henri Julien Ave. $131, 275 ft. DeNormanville Ave. $141, 416 ft. Goulet Ave. $208, 1,190 ft. Forbin-Janson St. $644, 360 ft. Lafontaine St. $203, 4,119 ft. Lyall Ave. $2,030, 3,712 ft. Azilda Ave. $1,987, 1,856 ft. Baldwin Ave. $1,016, 7,680 ft. Des-Ormeaux Ave. $6,468, 346 ft. Beaugrand Ave. $1,525, 1,610 ft. Lebrun Ave. $830, 1,310 ft. Souligny St. $1,078, 840 ft. Deteck Ave. $420, 6,000 ft. Birman Ave. $4,298, 3,060 ft. Ogilvy Ave. $2,464, 3,060 ft. Abraham Ave. $2,464, 3,060 ft. Hopper St. $2,464, 1,130 ft. Sherbrooke St. $863, 1,200 ft. Duquesne Ave. $644, 2,000 ft. Baldwin St. $1,725, 1,865 ft. Bordeaux St. $1,540, 1,227 ft. St. Zotique St. $1,155, 4,376 ft. Marquette St. $3,619, 382 ft. Boucher St. $323, 902 ft. Masson St. $770, 1,049 ft. Papineau Grove $924, $5,214 ft. Molson Ave. $4,235, 2,772 ft. Poupart Ave. $2,271, 1,808 ft. Beaubien St. $1,732, 4,794 ft. St. Zotique St. $4,235, 925 ft. Delormier Ave. $806, 4,760 ft. Iberville St. $4,158, 5,200 ft. Parthenais Ave. $4,466, 1,879 ft. Bellechasse Ave. $1,694, 1,296 ft. Garnier St. $1,078, 1,952 ft. Des Ecores St. $1,607, 2,300 ft. Des Carrieres Ave. $2,156, 4,091 ft. Marquette Ave. $3,388, 1,951 ft. Bordeaux Ave. $1,617, 1,463 ft. Kingsbury Ave. $1,232, 16,898 ft. Chabot Ave. $13,244, 9,614 ft. Delormier Ave. $7,623. Asphalt pavements on 4,102 ft. DeVilliers Ave. $50,216, 1,450 ft. St. Emelie St. $3,145, widening 7,500 ft. Cremazie Blvd. from 30 to 80 ft., $80,000. Concrete pavement on 677 ft. of land between Mansfield and McGill College Ave. to Burnside St. $4,043. Waterbound macadam on 1,390 ft. St. Clothilde St. $5,670. H. A. Terreault, dir. pub. wks.

Que., Outremont—Plans grading, paving and macadamizing streets, $126,967; also permanent sidewalks, $45,547. E. T. Sampson, city clk.

Ont., Galt—Plans to lay concrete pavements on Dundas and East Main Sts. $35,000. Prices wanted on materials. J. D. Black, city engr.

BIDS DESIRED

Vermont—Sept. 22, at office T. W. Dix, state highway comr., Montpelier, gravel surfacing 3.24 mi. road in Barton; adv. this issue.

Mass., West Roxbury (Boston P. O.)—Sept. 21, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, improving West Roxbury Parkway from Centre to Weld Sts., 400 cu.yd. grading, 1,500 cu.yd. fill, 200 cu.yd. loam surfacing, 200 sq.yd. concrete sidewalk, 7,100 sq.yd. concrete road, 120 lin.ft. edge stone, etc. $50,000. J. R. Rablin, Massachusetts Park Eng. Dept., 1 Ashburton Pl., Boston, Engr.

Connecticut—Sept. 26, by C. J. Bennett, state highway comr., Hartford, surfacing 4,270 lin.ft. North Main St., Essex; 8,000 lin.ft. Hadlyme Rd., Lyme; 6,075 ft. Pendleton Hill Rd., North Stonington; 4,050 ft. Pendleton Hill Rd., Voluntown; 5,300 ft. Bethlehem-Washington Rd., Bethlehem; all foregoing 7 in. native stone macadam; 17,150 ft. New Haven-New London Rd., Branford, 26,256 ft. Housatonic River Rd., Kent, both plain cement concrete; also 2 span concrete deck girder bridge over Quinnipiac River, in North Haven; adv. this issue.

Conn., New Haven—Sept. 18, by G. X. Amrhyn, supt. Park Dept., paving drives at East Rock Park, 11,350 sq.yd. bituminous macadam. $25,000-$30,000. E. S. Nettleton, Bureau of Engineering, city engr.

Conn., Noroton Heights—Oct. 2, at office H. J. Seeley, Soldiers Home, Noroton, constructing drives, curbing and catch basins on grounds of Fitch's Home, here. Adv. this issue.

N. Y., New York—Sept. 14, Dept. Parks, Municipal Bldg., repaving roadway of bridge over tracks of New York, New Haven and Hartford R.R., at Bronx and Pelham Parkways, asphalt blocks.

New Jersey—Sept. 27, by State Hy. Deept., Trenton, constructing Route 14, Sect. 7, Petersburg-Greenfield, Cape May Co.; removing present wood block pavement and concrete on Passaic River Bridge, Route 1, Lincoln Highway, and replacing same with rein.-con. base and wood block pavement, etc. A. L. Grover, ch. clk.; adv. this issue.

Pa., Munhall—Sept. 19, grading, paving and curbing McClure St., Blake, Brush and Boon Alleys, 1,300 cu.yd. excav., 3,000 sq. yd. concrete. $25,000. H. I. McClay, boro. clk.

Maryland—Sept. 19, by State Rds. Comn., Baltimore, grading, paving, curbing and removing old material, 2,200 ft. Columbia Ave. from Munroe St. to Gwynns Falls. J. N. Mackall, Garrett Bldg., Baltimore, chn.

Md., Baltimore—Sept. 27, by Bd. of Awards, grading, curbing and paving with 1½ x 1½ sheet asphalt on 6 in. concrete, 1-3-6 mix. Lombard St. from East to Ellwood Ave., Harvey St. from Lawrence to Jackson Sts., Wolfe St. from Pratt to Baltimore Sts., East Ave. from Thames St. to Eastern Ave., Calverton Rd. from Frederick Rd. to Hollins St., 15,000 sq.yd. asphalt, 2,600 lin.ft. concrete and 5,700 lin. ft. old stone curbing, 3,000 cu.yd. earth excav., 15,000 sq.yd. concrete base, Contr. 225 OC-NA. R. K. Compton, 214 East Lexington St., engr.

Alabama—Oct. 6, by W. S. Keller, state highway engr., Montgomery, grading, surfacing and constructing bridge on 1.13 mi. road from Livingston south, 1 acre clearing, 32,328 cu.yd. common excav. and borrow 2,000 cu.yd. rock excav., 294.96 cu.yd. concrete, 14,286 lb. reinforcing, 12,000 sq.yd. 2½ in. bituminous macadam, penetration method, 2,485 cu.yd. slag base, one 120 ft. steel span, 865 lin.ft. creosoted timber trestle with 1,873 sq.yd. ¾ in. cold mix surfacing, etc.

S. C., York—Sept. 19, by Bd. Comrs. York Co., grading and surfacing 2.57 mi. York-Smyrna Rd., 21,497 cu.yd. common and 250 cu.yd. rock excav.; 782 cu.yd. topsoil, etc.; bridge over Bullocks Creek on above road, 100 cu.yd. dry and 200 cu.yd. wet excav., 2,900 lin.ft. piling, 608 sq.yd. bituminous surfacing.

O., Maple Heights (Bedford P. O.)—Sept. 20, by Village, grading and laying sidewalks on Center Rd., Ellen Blvd., Raymond and Summit Aves. To exceed $25,000. F. J. Lander, Court House, Cleveland, engr.

Ind., Marion—Sept. 16, by Comrs. Grant Co., grading and gravel surfacing 3.5 mi. Daniel Stuber Rd., 16 ft. $27,000. G. Swisher, Marion, engr. Noted Sept. 7.

Ind., Noblesville—Sept. 16, by Comrs. Hamilton Co., grading and gravel surfacing 3 mi. John Rupe Rd., 18 ft., $25,500; 3 mi. Henry Brehm Rd., 18 ft., $26,000. J. S. Shannon, Noblesville, engr. Noted Sept. 7.

Michigan—Sept. 19, by State Hy. Dept., Lansing, grading and surfacing 3.01 mi. State Trunk Line Rds., 24-17, Sects. A and B, and 54-6, Sect. B, Neewaygo Co., 10,000 cu.yd. excav., 28,000 sq.yd. gravel. F. F. Rogers, state highway comr.

Michigan—Sept. 20, by State Hy. Dept., Lansing, grading and surfacing 5 mi. State Trunk Line Rd. 39-3, Ionia Co. $30,000. F. F. Rogers, state highway comr.

Michigan—Sept. 27, by State Hy. Dept., Lansing, grading and surfacing 12.062 mi. Federal Aid Project 80, Sects. A and B, Machinac Co., 73,522 cu.yd. excav., 127,209 sq.yd. gravel or stone gravel. F. F. Rogers, state highway comr. Noted Aug. 31.

Kan., Iola—Oct. 13, by Allen Co. Comrs. paving 4.046 mi. Fort Scott Wichita Highway, Federal Aid Project 125-A, 18 ft. $150,000. A. Stroup, co. engr.

Kan., Wellington—Oct. 6, by Comrs. Sumner Co., grading 8.426 mi. Meridian Rd., Sects. D and E, Project 35, 29½ ft. $40,000. Former bids rejected. J. W. Mavity, co. engr. Noted Aug. 17.

Wyoming—Sept. 19, by State Hy. Comn., Cheyenne, grading and placing 18 ft. bituminous wearing surface on concrete on 7 mi. Casper-Salt Creek Rd., alternate 18 mi., 9 ft., Federal Aid Project 19, Natrona Co., $300,000; grading, surfacing and constructing culvert on 5.6 mi. Yellowstone Highway north of Cheyenne, 24 ft., Federal Aid Project 134, Laramie Co., $28,653; surfacing 12.2 mi. Lincoln Highway from Rock River west, 24 ft., Federal Aid Project 122, Albany Co., $103,104; 6.2 mi. Lincoln Highway from Lookout to Rock River, 24 ft., Federal Aid Project 123, Albany Co., $40,383; grading, constructing culvert, 95 ft. steel, 54 ft. steel truss and 16 ft. I-Beam spans on 8.8 mi. state highway from Crowheart west, 20 ft., Federal Aid Project 172, Tremont Co., $87,042. J. F. Seiler, state highway engr.

Missouri—Sept. 22, by State Hy. Dept. at div. office Hermitage, 3.069 mi. road from Hermitage westwardly, 24 ft., Federal Aid Project 86 A, Hickory Co., 8,862 cu.yd. earth and 2,395 cu.yd. rock excav., 12,817 cu.yd. borrow, 54.1 cu.yd. concrete masonry, 21,886 sq.yd. specification C gravel pavement, etc. B. H. Piepmeier, Jefferson City, state highway engr.

Tex., Winters—Sept. 22, by Mayor, paving, curbing, guttering and preparing subgrade, etc. on 3 blocks, Main and Post Office Sts., 67 ft., 8,060 sq.yd. vitr. brick or concrete, 1,530 ft. concrete curb. $25,000. U. Stephens, Ballinger, engr.

Colorado—Sept. 26, by State Hy. Dept., Denver, gravel surfacing 5.296 mi. Spanish Trail on highway between Hesperus and Mancos, Federal Aid Project 213-B, La Plata and Montezuma Counties, 18 ft., 322 cu.yd. concrete, 48,600 cu.yd. common, 5,300 cu.yd. rock and 17,000 cu.yd. borrow fill excav., 23 acres clearing, 14,000 sta.yd. overhaul, 55,924 sq.yd. gravel surfacing, 23,865 lb. reinforcing, 1,100 lin.ft. 15-24 in. corrugated metal pipe, $69,747, 3.609 mi. Spanish Trail beginning 5½ mi. west of Durango and extending west toward Hesperus, Federal Aid Project 71-B, La Plata Co., 18 ft., 167 cu.yd. concrete, 18,400 cu.yd. common, 6,900 cu.yd. rock and 12,800 cu.yd. borrow fill excav., 13 acres clearing, 900 sta.yd. overhaul, 38,114 sq.yd. gravel surfacing, 11,870 lb. reinforcing, $54,099; grading 10.731 mi. Platteville-Greeley Rd., beginning 2 mi. north of Platteville and extending northeast parallel to Union Pacific R.R. tracks through La Salle toward Greeley, Federal Aid. Project 226-C, Weld Co., 16 ft., 13,400 cu.yd. common, 58,400 cu.yd. borrow fill excav., 783 cu.yd. concrete, 35,870 lb. reinforcing and 30,530 lb. structural steel, etc., $46,071; grading and graveling 7.474 mi. Cochetopa Pass Rd. beginning at point about 6 mi. west of Saguache and extending west toward Cochetopa, Federal Aid Project 119-B, Saguache Co., 16 ft., 12,400 cu.yd. common, 1,000 cu.yd. rock and 24,600 cu.yd. borrow fill excav., 398 cu.yd. concrete, 19,250 sq.yd. crushed rock surfacing, 20,063 lb. reinforcing, includes 40 ft. concrete bridge sta. 283 and 53, 242 cu.yd. concrete, 17,087 lb. reinforcing, $48,827. L. D. Blauvelt, State Office Bldg., Denver, engr.

BIDS RECEIVED

Maine—State Hy. Dept., Augusta, bituminous macadamizing (a) 2.64 mi. State Highway B, Project 58, in Brighton, (b) 1.004 mi. State Highway D, Project 54, in Rockport and Camden; gravel surfacing (c) 5.8 mi. State Highway F, Project 59, in Turner, (d) 3.16 mi. State Highway N, Project 61, in Perry, (e) 3.67 mi. State Highway W, Project 55, in Rome and New Sharon, (f) 3.36 mi. State Highway W, Project 56, in New Sharon; cement concrete paving (g) 3.78 mi. State Highway K, Project 52, in Presque Isle, from Arborio Road Constr. Co., 408 Main St., Hartford, Conn., (a) $56,377, (b) $20,853, (d) $65,268, (f) $43,785; J. Arborio, 82 Church St., New Haven, Conn., (a) $58,497, (c) $73,861,

Streets and Roads (Continued)

(e) $52,557, (f) $50,579; A. D. Bridges Sons, Inc., Hazardville, Conn., (a) $66,836, (b) $18,107, (c) $68,823, (g) $150,189; R. Ingalls, Bar Harbor, (b) $21,831; R. and J. McGregor, Rumford, (c) $75,048; H. A. Day, 284 Parkview Ave., Bangor, (d) $68,883; A. V. Leo Constr. Co., Thompson, Conn., (d) $69,075, (e) $54,045, (f) $49,375; F. B. Hastings, 1335 Wood Ave., Bridgeport, Conn., (e) $54,728; Frissell Eng. Co., Gardner, Mass., (g) $143,381; McCabe & Giovanni, 24 East Concord St., Boston, Mass., (g) $157,577. Noted Aug. 17.

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids Aug. 29, improving 6.48 mi. Highway 8132 Whitehall-Dresden Center, Part 3, Washington Co., engrs. est. $316,026, from J. L. Hayes Constr. Co., Inc., 70 Main St., Yonkers, $296,916, Masterson Constr. Corp., 15 East 40th St., New York, $297,218, Ward & Tully, Inc., 189 Montague St., Brooklyn, $306,471; 0.59 mi. Highway 8134, Warsaw Village: East Buffalo St., Wyoming Co., engrs. est. $102,442, from Miller Constr. Co., Punxsutawney, Pa., $86,542, M. H. Ripton, Rochester, (street address not available) $89,894, Wieberg Bros., Forks, $90,581. Noted Aug. 17.

N. Y., Richmond Hill—Dept. Parks, Municipal Bldg., New York, opened bids Sept. 7, improving main drive in Forest Park, from H. E. Kordes, 2577 Cooper St., Brooklyn, $72,931; Boro Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $76,897; Peconca Eng. & Contg. Co., $78,419. Noted Aug. 31.

Pa., Phila.—Opened bids Sept. 8, paving (1) Ardleght St. from Price to Haines Sts., Lebanon St. from 54th to 53rd Sts., Stafford St. from Ardleigh to Anderson Sts., (2) 23rd St. from Allegheny Ave. northerly, Cherry St. from Conestoga to 55th Sts., (3) Torresdale Ave. from Lewis to Kinsey Sts., (4) Torresdale Ave. from Gillingham to Kennedy Sts., (5) 4th St. from Porter to Shunk Sts., 20th St. from 65th to 66th Aves., Lebanon Ave. from Bryn Mawr to 53rd Sts., (6) Rising Sun Ave. from Roosevelt Blvd. to Olney Ave., (7) Glen Echo Rd. from McCallum St. to Mt. Pleasant Rd., Roanoke St. from Springfull Ave. to Moreland St., 66th Ave. from 5th to Fairhill Sts., from Eastern Paving Co., Colonial Trust Bldg., (1) $26,020, (2) $5,746, (3) $29,083, (4) $37,773, (5) $26,563; Barber Asphalt Paving Co., Land Title Bldg., (1) $27,563, (2) $5,673, (3) $31,076, (4) $38,954 (5) $27,988; M. J. McCrudden, Real Estate Trust Bldg., (6) $119,743; F. Mark Constr. Co., Commercial Trust Bldg., (6) $127,563, (7) $4,863; J. J. McHugh, 1430 South Penn Sq., (6) $116,850; J. F. Nolen & Sons, 63rd and Grovers Lane, (7) $4,676.

North Carolina—State Hy. Dept., Raleigh, grading and concrete or asphaltic paving (1) 3.88 mi. State Project 615, Cabarrus Co., (2) 3.4 mi. State Project 765, Surry Co., (3) 0.59 mi. State Project 673, Davidson and Rowan Counties, (4) 4.83 mi. State Project 876, Rutherford Co., (5) 9.81 mi. State Project 589, Rockingham Co., (6) 9.87 mi. State Project 460, Orange Co., (7) 2.1 mi. State Project 590, Rockingham Co., (8) 10.24 mi. State Project 528, Davidson Co., (9) 2.52 mi. State Project 785, Wilkes Co., (10) 9.55 mi. State Project 658, Mecklenburg Co., (11) 7.03 mi. State Project 328, Columbus Co., (12) 7.88 mi. State Project 608, Anson Co., (13) 7.57 mi. State Project 901, Buncombe Co., grading and topsoiling (14) 12.4 mi. State Project 157 A, Martin Co., (15) 12.45 mi. State Project 157 B, Martin Co., grading and topsoiling or gravel surfacing (16) 3.84 mi. State Project 847, McDowell Co., (17) 11.06 mi. State Project 712, Ashe Co., grading, rein.-con. structures and topsoiling (18) 4.97 mi. State Project 784, Wilkes Co., (19) 15.8 mi. State Project 882, Rutherford Co., grading, rein.-con. structures, concrete or asphaltic paving (20) 8.8 mi. State Project 412, Durham Co., (21) 1.58 mi. State Project 821, Cleveland Co., (22) 10.47 mi. State Project 822, Cleveland Co., (23) 2.22 mi. State Project 761, Surry Co., grading, penetration or waterbound macadam paving (24) 8.98 mi. State Project 380, Pender Co., clearing, grading and topsoiling (25) 7.12 mi. State Project 106, Bertie Co., grading, reconstructing old macadam and asphaltic surfacing (26) 10.64 mi. State Project 351, New Hanover Co., from Thompson-Caldwell Constr. Co., Mooresville, (1) $89,763, (10) $227,536; Simmons Constr. Co., Charlotte, (street address not available), (1) $90,656; Campbell Constr. Co., Georgia Home Bldg., Columbus, Ga., (2) $102,442; Fiske-Carter Constr. Co., Masonic Temple Bldg., Greenville, S. C., (2) $111,597, (4) $132,968, (9) $76,386; Elliott & Sons, Spartanburg, S. C., (3) $32,332, (22) $329,882; J. A. Kreis, Holston Bank Bldg., Knoxville, Tenn., (3) $33,910, (5) $343,754; W. F. McCanless, Charlotte, (street address not available), (3) $34,875; Bolton Constr Co., Marion, (4) $142,216; Rumer-Graeber Co., Shamokin, Pa., (4) $155,209; Chitwood & Driscoll, Reidsville, (5) $294,352; Public Service Production Co., Terminal Bldg., Newark, N. J., (5) $309,663, (8) $325,192; R. M. Hudson Co., Salisbury, (6) $269,850, (11) $206,680, (12) $250,473, (22) $340,744; L. L. Tindall, Waterford, Wis., (6) $280,967, (11) $199,428, (20) $229,629, (24) $205,397; Dawkins Constr. Co., Paul-Gale-Greenwood Bldg., Norfolk, Va., (6) $290,117, (26) $221,705; G. R. Martin, Salisbury, (7) $59,063, (23) $67,396; G. T. Franklin Co., Bassett, Va., (7) $66,115; Hagedorn Constr. Co., Thomasville, (8) $322,832, (12) $251,112; R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, (8) $327,796; D. J. Brookshire & Co, North Wilkesboro, (9) $71,548; Hyde & Baxter, 1311 G St, N. W., Wash., D. C., (9) $77,995; Union Paving Co., 30th and Locust Sts., Phila., (10) $222,833; Lampton & Burks, Cornelius, S. C., (10) $232,180, (12) $249,930; C. D. Riggsbee, Durham, (11) $205,287, (20) $229,214; L. J. Smith Constr. Co., Charlotte, (street address not available), (13) $185,494; A. J. Wardrep, Holston Bank Bldg., Knoxville, Tenn., (13) $196,742; J. F. Mulligan Constr. Co., North Wilkesboro, (14) $43,620, (15) $44,333, (17) $112,891, (18) $48,714, (25) $31,141; Jamison Bros., High Point, (14) $43,852, (15) $45,463; J. P. Dicus, Robbinsville, (14) $46,270; J. A. Marrow, Clarksville, Va., (15) $47,903, (25) $32,775; C. W. Lacy, Wilmington, (16) $65,374, (24) $147,466; Olliver & Costello Bros., Knoxville, Tenn., (street address not available), (16) $74,436; W. H. Anderson Constr. Co., Johnson City, Tenn., (16) $74,652; J. T. Plott, Greensboro, (17) $98,392, (18) $49,545; Albert Bros., Shawsville, Va., (17) $110,273; E. P. Robinson, North Wilkesboro, (18) $52,234; C. R. Willard & Son, Spartanburg, S. C., (19) $67,874; J. C. Jobnist, Monroe, (19) $69,532; Ross Bros. Constr. Co., Andres, (19) $70,628; Porter & Boyd, Realty Bldg., Charlotte, (20) $226,507, (23) $81,350; Davis Wilcox Constr. Co., Bessemer City, (21) $52,150, (22) $347,731; Leaksville Lumber Co., Leaksville, (23) $72,210; Southern-Willite Paving Co., Real Estate Exch. Bldg., Richmond, Va., (26) $181,824. Noted Aug. 3, 10 and 17.

ROAD WORK—MAINE

Bids were opened by State Highway Comn., Augusta, Aug. 25, for constructing 3.78 miles State Highway "K," Presque Isle Project No. 52, (A) Frissel Eng. Co., Gardner, Mass.; (B) A. D Bridge's Sons, Inc., Hazardville, Conn.; (C) McCabe & Giovannini, 24 East Concord St., Boston. The unit bids were as follows:

	A	B	C
10,868 cu.yd. earth excavation	$1.60	$1.25	$1.70
175 cu.yd. rock excavation	8.00	4.00	6.00
1,200 cu.yd. borrow	1.25	1.25	1.80
9,000 cu.yd. gravel base	2.90	2.80	2.65
33 cu.yd. class "A" concrete	30.00	30.00	35.00
96 cu.yd. class "B" concrete	25.00	25.00	30.00
64 lin.ft. 12-in. C.M. pipe	1.50	1.00	1.50
32 lin.ft. 14-in. C. M. pipe	1.75	1.25	1.50
30 lin.ft. 18-in. C. M. pipe	2.00	1.50	2.00
28 lin.ft. 12-in. C.I. pipe	1.75	1.25	3.00
196 lin.ft. 16-in. C. I. pipe	2.00	1.50	4.00
168 lin.ft. 18-in. C.I. pipe	2.25	1.75	5.00
34 lin.ft. 24-in. C.I. pipe	2.75	2.50	6.00
242 sq.yd. cobble gutter	2.50	1.50	3.00
80 cu.yd. gravel road	4.00	4.00	3.00
7,763 cu.yd. one-course cement concrete surface	9.50	11.50	11.00
345,400 lb. steel reinforcement	.05	.04¼	055
534 lin.ft. wood guard rail	1.00	0.60	1.00
Extended totals	$143,381	$150,189	$157,577

Following are lowest bids opened Aug. 25, by State Highway Comn., Augusta, for constructing 5.80 mi. State Highway "F," Turner Project No. 59, (A) A. D. Bridge's Sons, Inc., Hazardville, Conn.; (B) J. Arborio, 82 Church St., New Haven, Conn.; (C) R. & J. McGregor, Rumford. The unit bids were as follows:

	A	B	C
16,000 cu.yd. earth excavation	$.85	$1.00	$1.15
50 cu.yd. rock excavation	2.00	1.00	4.00
3,600 cu.yd. borrow	.90	1.00	1.15
50 cu.yd. stone fill	2.00	3.00	2.75
50 cu.yd. gravel base	3.00	2.50	2.45
2,690 cu.yd. stone base, gravel finish	2.75	3.00	3.00
515 cu.yd. gravel sub-base	2.50	2.50	2.45
10 cu.yd. side underdrain	4.00	3.00	2.45
44 cu.yd. class "A" concrete	25.00	25.00	28.00
150 cu.yd. class "B" concrete	25.00	25.00	22.00
10 cu.yd. dry rubble masonry	10.00	10.00	8.00
672 lin.ft. 14-in. C.M. pipe	.75	1.00	1.00
382 lin.ft. 16-in. C.M. pipe	.75	1.00	1.10
58 lin.ft. 18-in. C.M. pipe	.70	1.00	1.25
188 lin.ft. 20-in. C.M. pipe	.70	2.00	1.50
70 lin.ft. 24-in. C.M. pipe	1.00	2.00	2.00
100 sq.yd. cobble gutter	1.50	1.00	1.50
13,900 cu.yd. gravel road	2.55	2.50	2.45
4,160 lin.ft. wood guard rail	.50	.75	.55
Extended totals	$68,823	$73,861	$75,048

Kentucky—State Hy. Dept., Frankfort, grading 2.2 mi. Jenkins-Whitesburg Rd., State Project 6, Sect. B, Letcher Co., (a) vitr. pipe, (b) c.i. pipe, (c) rein.-con. pipe, from Dempster Constr. Co., 721 North Central St., Knoxville, Tenn., (a) $41,674, (b) $42,246, (c) $41,625; Cohen Constr. Co., Knoxville, Tenn., (street address not available), (a) $47,535, (b) $48,235; Walton-Sudduth, Bluefield, W. Va., (a) $57,691, (b) $57,785, (c) $57,785.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids Sept. 8, grading 2 mi. Sect. "L" Mt. Gilead-Mansfield Rd., Morrow Co., from O. Johnson, West Mansfield, $25,494, F. H. Gibben, Prospect, $26,265, D. M. Roach, Defiance, $28,994; bridge on Sect. "S" Salineville-Yellow Creek Rd., Columbiana Co., from Cox & Heflop, Kensington, $5,474, H. C. Armstrong, Lisbon, $5,717.

O., Akron—W. C. Peters, dir. Pub. Serv., opened bids Sept. 6, grading, laying sidewalks and paving with (a) brick, (b) asphalt on (1) 2,200 ft. Aqueduct St., 28 ft., 3,750 lin.ft. stone curb, 1,060 sq.yd. brick gutter, 800 sq.yd. 4 in. cement sidewalk, 2,400 cu.yd. earth excav., 7,160 sq.yd. vitr. brick or 6,100 sq.yd. asphalt, engrs. est. (a) $36,392, (b) $36,206, (2) $2,800 ft. North Main St., 54 ft., 2,525 lin.ft. stone curb, 1,400 lin.ft. brick gutter, 31,500 sq.ft. sidewalk, 7,500 cu.yd. earth excav., 12,100 sq.yd. vitr. brick on 6 in. concrete or 10,700 sq.yd. asphalt, etc., engrs. est. $84,460, (3) 1,000 ft. Middlebury St., 24 ft., 1,750 lin.ft. stone curb, 445 sq.yd. brick gutter, 1,425 cu.yd. earth excav., 1,930 sq.yd. asphalt or 2,375 sq.yd. vitr. brick on 6 in. concrete, engrs. est. (a) $12,573, (b) $12,410, resurfacing (4) 325 ft. South Case Ave., 30 ft., 250 lin.ft. stone curb, 1,920 sq.ft. sidewalk, 810 sq.yd. sheet asphalt, 265 sq.yd. 6 in. concrete base, 125 ton binder, engrs. est. $5,518, grading and laying sidewalks on (5) 1,850 ft. Wall St., 18,420 sq.ft. 4 in. cement sidewalk, 2,900 cu.yd. earth excav., 950 cu.yd. gravel, engrs. est. $9,178, grading, laying sidewalks and graveling (6) 750 ft. Linden St., 8,450 sq.ft. 4 in. cement sidewalk, 1,700 cu.yd. earth excav., 400 cu.yd. bank gravel, engrs. est. $4,141, (7) 1,660 ft. Glenwood Ave., 16,620 sq.ft. cement sidewalk, 2,600 cu.yd. earth excav., 800 cu.yd. gravel, engrs. est. $9,364, (8) 2,200 ft. Lakemont Ave., 22,050 sq.ft. 4 in. cement sidewalk, 7,500 cu.yd. earth excav., 1,150 cu.yd. bankgravel, engrs. est. $13,943, (9) 3,500 ft. Englewood Ave., 40,200 lin.ft. 4 in. cement sidewalk, 3,000 cu.yd. earth excav., 2,100 cu.yd. cinders or gravel, engrs. est. $16,217, from

Columbus Asphalt Paving Co., Buckeye Bldg., (1a) $38,031, (1b) $34,941, (2a) $91,005, (2b) $86,223, (3a) $13,927, (3b) $12,976, (4) $6,013.

T. E. McShaffrey Constr. Co., 171 South

Streets and Roads (Continued)

Forge St., (1a) $37,678, (1b) $35,503, (2a) $83,535, (2b) $78,860, (4) $6,044.

E. and W. McShaffrey Co., 574 Rhodes Ave., (1a) $36,094, (3a) $13,549.

E. H. Rawle, 839 Bloomfield Ave., (3a) $13,279.

Timms Clark Co., 437 2nd Natl. Bldg., (5) $8,425, (6) $3,838.

Di Foti Constr. Co., 72 Furnace St., (-) $7,984, (6) $4,491, (7) $8,238, (8) $13,545, (9) $14,985.

Crano & Lombardi, 274 Crosby St., (5) $10,102, (6) $4,806, (7) $11,631.

H. Gilbert, 19 South Martha Ave., (7) $12,427, (9) $15,756.

H. G. Baltes, Akron (street address not available), (9) $16,931. Noted Aug. 31.

O., Akron—Summit Co. opened bids Sept. 7, grading and paving 1.19 mi. Richfield-Rd. 19 Sect. A, bituminous macadam, from A. F. Wible, 859 Chalker St., $26,001; 1.23 mi. Brittain-Massillon Rd. 49 Sect. B-2, rein.-con., from V. Olson Contg. Co., Herberich Bldg., $44.925, H. Gilbert, 19 South Martha Ave., $45,537, T. E. McShaffrey Constr. Co., 171 South Forge St., $45,895. Noted Aug. 31.

O., Cleveland—Cuyahoga Co. paving Bean Rd. 1, 14,500 lin.ft. 4 in. sewer pipe gutter, 7,400 cu.yd. earth excav., 12,900 sq. yd. concrete, from Freshwater Constr. Co., Natl. Bldg., $48,167; W. McDowell & Son, 10309 Miles Ave., $48,195; River Constr. Co., Schofield Bldg., $48,680.

O., Cleveland Heights (Warrensville P. O.)—Opened bids Aug. 28 paving (1) Greyton and Nela View Rds., (2) Cedar Rd. (3) Inglewood and Roanoke Rds., from Spence Bros., c/o Pavers Exch., Society for Savings Bldg., Cleveland, (1) $41,393; Rieley Bros., The Arcade, Cleveland, (1) $46,704 (2) $69,500 (3) $41,889; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (2) $68,845 (3) $42,339. Work involves 16,100 lin.ft. stone curb, 15,500 lin. ft. 4 in. tile drain gutter, 13,700 cu.yd. earth excav., 125,400 sq.ft. vitr. brick, 17,100 sq.ft. asphaltic concrete and 269,400 sq.ft. concrete base. Noted Aug. 24.

Ind., Hammond—Comrs. Lake Co opened bids Aug. 28, crushed stone surfacing 14,530 ft. Leo Bixeman Rd., 10 ft. wide, 8 in. thick, 6,664 cu.yd. fill, 3,600 cu. yd. crushed stone, 900 cu.yd. screening, 7232 cu.yd. excav., from See Teaming & Supply Co., Hammond, $27,400; Courtright, Hiney & Wheeler, Gary, $27,500; United Constr. Co., Hammond, $31,890. Noted Aug. 17.

Mich., Detroit—Opened bids paving (1) Malvern Ave. from Van Dyke to Maxwell Aves., (2) Arlington Ave. from Six Mile Rd. to Stender Ave., (3) Central Ave. from Warren to Tireman Aves., (4) Dakota Ave. from John R to Brush Sts., (5) 14th Ave. from Chicago to Boston Blvds., (6) Minnesota Ave. from John R to Brush Sts., (7) Montana Ave. from Woodward to John R Sts., (8) Quincy Ave. from Gladstone to Hazelwood Aves., (9) Stoepel Ave. from Southfield to Westfield Aves., (10) 12th St. from Pilgrim to Puritan Aves., from Detroit Asphalt Paving Co., 20 McGraw Bldg., (1) $8,388 (2) $12,988 (3) $40,451 (4) $17,571 (5) $7,002 (6) $17,604 (7) $27,020, (8) $4,306 (9) $17,202 (10) $16,850; Cleveland Trinidad Paving Co., 402 Hammond Bldg., (1) $8,871 (2) $13,289 (3) $43,341 (4) $18,740 (5) $7,139 (6) $18,784 (7) $26,607 (8) $4,588 (9) $17,899 (10) $16,264; G. R. Cooke, 1260 Penobscot Bldg., (2) $12,734 (4) $17,305 (6) $17,333 (7) $26,607.

Wis., Beloit—Paving State St. incl., 3,200 lin.ft. combined concrete curb and gutter, 12,000 sq.yd. brick pavement, 4,600 cu.yd. excav., from G. Welch, 206 East Water St., $57,166. Noted Aug. 17.

Neb., York—Paving various streets, from Roberts Constr. Co., 404-5 1st Natl. Bank Bldg., Lincoln; A. A. Dobson, 809 1st Natl. Bank Bldg., Lincoln; Ammerman and Jackson, Wichita, Kan. Noted Aug. 24.

Wash., Seattle—Opened bids Sept. 2, paving, etc., Terry Ave. et al., 5,100 sq.yd. brick block, 16,500 sq.yd. 6 in. asphaltic concrete, 2,275 sq.yd. 7 in. concrete, 6,780 lin.ft. 16 in. asphaltic concrete curbing, 4,500 cu.yd. earth excav., etc., from J. L. Smith, Pioneer Bldg., $105,936, R. G. Stevenson, 1327 North 34th St., $106,386, D. H. Traphagen, Walker Bldg., $107,201; concrete walks on Atlantic St., et al., 17,300 lin.ft. 2 course concrete sidewalk, 1,150 cu.yd. concrete cross walks, 4,000 lin. ft. 3 in. sewer pipe, from D. H. Traphagen, Walker Bldg., $31,532, Coluccio & Erickson, 517 22nd St. S., $34,384, C. L. Creelman, 1079 25th St. N., $34,700.

CONTRACTS AWARDED

Connecticut—State Hy. Dept., Hartford, paving 7,552 ft. Sprague State Rd., 18 ft., in Sprague, 7 in. waterbound macadam on local stone or traprock base, to L. Longhi & Bro., 43 Center St., Torrington, $39,375. Noted Aug. 24.

New York—H. S. Sisson, comr. State Hy. Dept., Albany, improving 2.56 mi. Highway 1649, East Aurora-Lancaster, Part 1, Erie Co., to Hessell & Son, East Aurora, $93,644, engrs. est. $105,778; 6.45 mi. Highway 8129, Merrills Corner-Collins Corner-Clinton Co. line, Franklin Co., to R. Hopkins Co., 824 2nd Ave., Troy, $193,974, engrs. est. $213,523; 6.47 mi. Highway 8130, Natural Bridge-Harrisville, Part 1, Lewis Co., to F. H. Wells, Savannah, $231,676, engrs. est. $234,730; 4.06 mi. Highway 1648, Montgomery-Bullville, Part 2, Orange Co., to Armstrong & Trowbridge, Middletown, $93,105, engrs. est. $115,666; 5.27 mi. Highway 6131 Malta-Bemis Heights, Part 2, Saratoga Co., to Eastover Constr. Co., Herkimer, $206,998, engrs. est. $207,148; reconstructing 2 mi. Repair Contr. 1353 Highway 5250, Oswego Co., to Standard Bitulithic Co., 50 Church St., New York, $47,647, engrs. est. $47,700; 1.14 mi. Repair Contg. 1348 Highway 1115, Rensselaer Co., to P. H. Murray, 321 Cutler Bldg., Rochester, $40,332, engrs. est. $40,557; 2.91 mi. Repair Contr. 1349, Highways 714 and 715, Livingston Co., to A. Yesu & Son, 27 Carroll St., Binghamton, $85,573, engrs. est. $92,368; 2.36 mi. Repair Contr. 3024, Highway 726, Madison Co., to Ross Bros. & Griffiths, Copenhagen, $64,235, engrs. est. $69,339. Noted Aug. 17.

N. Y., Buffalo—Paving (a) Sect. 1 (b) Sect. 2 of Bailey Ave., 40 ft., specification B standard asphalt on concrete, to H. P. Burgard Co., 1968 Fillmore Ave., (a) $3,256 (b) $35,552. Noted July 13.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and laying sidewalks on Potter Ave., from Van Alst to Goodrich Sts., to F. J. Clancy, Corona, $11,899; 101st St., to Kennedy & Smith, 93 Amity St., Flushing, $40,195; grading and paving Potter Ave. from Barclay St. to 2nd Ave. and grading, laying sidewalks and paving Shaffee St., to Cleveland Trinidad Paving Co., Flushing, $36,916 and $6,386 respectively; curbing and laying sidewalks on Opdyke St., to R. A. Hess, Inc., Corona, $4,263. Noted Sept. 7.

N. Y., New York—Park Bd., Municipal Bldg., repaving heavy traffic road Southern Blvd. in southwesterly portion of Botanical Garden, Bronx Boro, to C. D. Beckwith, 2875 Bway., $24,841. Noted Sept. 7.

N. Y., Niagara Falls—Paving 24th St. from Pine to Ferry Aves., 3½ in. vertical fibre brick, to J. F. McKinney Corp., Gluck Bldg., $31,466. Noted Sept. 7.

N. Y., Rochester—Bd. Contr. & Supply resurfacing (1) 4,000 ft. North St. from Portland Ave. to East Main St., (a) asphalt on present medina blocks (b) laying new medina blocks between car tracks, engrs. est. $102,320 (2) 3,600 ft. Clifford Ave. from end of present pavement to Culver Rd. (a) new asphalt (b) medina block between car tracks, to T. Holohan, 162 Lewis St., (1a) $29,959 (2a) $21,306; New York State Rys., 343 State St., (1b) $57,500 (2b) $22,390. Noted Aug. 17.

N. Y., Rochester—Paving Clifford Ave., Paige St. and resurfacing Erion Crescent, all asphalt, to T. Holohan, Rochester (street address not available), $21,306, $11,489 and $2,039 respectively; grading Highland Ave., to W. E. Kinney Co., Rochester (street address not available) $13,595; West High Athletic Field retaining wall, to Whitmore, Rauber & Vicinius, Rochester (street address not available) $2,049.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, reconstructing roadway, Richmond Turnpike, etc., to J. Johnson Sons, 455 Bway., West New Brighton, $126,856. Noted Sept. 7.

New Jersey—State Hy. Dept., Trenton, constructing Route 7, Sect. 1, Corlies Ave., Neptune Twp., Monmouth Co., 18,765 sq. yd. concrete, to East Jersey Bridge Co., 175 Smith St., Perth Amboy, 102% of engineers estimate ($95,207). Noted Aug. 24.

N. J., Highland Park—Mayor and Boro Council, 10 North 2nd Ave., pavements on Montgomery and Johnson Sts., Cedar, Adelaide and South 6th Aves., also sewer in Cedar Ave., to Utility Constr. Co., 5 Spring St., New Brunswick, $60,304. Noted Aug. 31.

N. J., New Brunswick—Paving Albany and French Sts. from Water to Alexander Sts., 17,014 sq.yd. asphalt blocks, to Utility Constr. Co., 5 Spring St., $122,644.

N. J., Somerville—Somerset Co., Court House, constructing State Highway Route 9, Sect. 7-A from Grove St. through East Main St., North Gaston and Union Aves., etc., 12,450 sq.yd. concrete, to New Jersey Constr. Co., Dock St., Hackensack, $77,549. Noted Aug. 17.

Pa., Oil City—Resurfacing 7 streets with asphalt, to D. A. Grant Co., Veach Bldg., $103,292. Noted July 13.

Pa., Youngsville—A. White, clk. Warren Co., paving 3,616 ft. Main St., concrete, (Countys share of work), to W. Martin and F. J. Kaltenbach, Girard, $25,994. Noted Aug. 17.

Md., Baltimore—See "Buildings."

W. Va., Mullens—Paving units 4, 5, 10, 11, 12, 13, 14, 15, 22 and 23, vitr. brick, to G. T. Fogle & Co., Charleston, $39,320.

North Carolina—State Hy. Dept., Raleigh, improving 15.22 mi. State Project 888, Yancey Co., to The Luck Co., Sylva, $166,565. Noted July 6.

Fla., Tavares—Comrs. Lake Co., resurfacing, widening roadbed, building shoulders, etc., on 17.6 mi. Sect. Rd. G, 22,000 cu.yd. sand-clay, 20,000 cu.yd. excav., 30 acres clearing, 1,720 lin.ft. culverts, 11,000 cu.yd. overburden excav., to Bryson Live Stock Co., Jacksonville, (street address not available), $40,290.

Fla., West Palm Beach—Palm Beach Co. paving with marl rock and surfacing with oil 10 mi. Military Trail-Lake Worth Rd., to E. P. Maule, Ojus, $35,300. Noted July 6.

Kentucky—State Hy. Dept., Frankfort, to R. G. Hill & Co., Knoxville, Tenn., (address not available), paving with bituminous penetration macadam on sandstone base, vitr. pipe 7.7 mi. Catlettsburg-Louisa Rd., State Project 6, Sect. B, Boyd Co., $202,539; to Dempster Constr. Co., 721 North Central St., Knoxville, Tenn., grading and draining (rein.-con. pipe) 9.3 Salyersville-Paintsville Rd., Federal Aid Project 76, State Project 34, Sect. A, Johnson Co., $161,139, 7.2 mi. Beattyville-Irvine Rd., State Project 29, Sect. A, Magoffin Co., rein-con. pipe, $82,- mi. Jenkins-Whitesburg Rd., State Project 6, Sect. A, Letcher Co., rein.-con. pipe, $45,103, 6.7 mi. Salyersville-Paintsville Rd., Federal Aid Project 75, State Project 34, Sect. A, Magoffin Co., rein.-con. pipe, $82,997, 1.2 mi. Pikeville-Williamson Rd., Federal Aid Project 80, State Project 36, Sect. B, Pike Co., $41,451; to U. S. Tackett, Mt. Sterling, grading and draining (standard vitr. pipe) 1.7 mi. Hyden-Hazard Rd., State Project 28, Sect. A, Leslie Co., $57,240; to Costello Bros. & Co., Henson Bldg., Knoxville, Tenn., grading and draining (rein.-con. pipe) 6 mi. Central City-Calhoun Rd., State Project 10, Sect. B, Muhlenberg Co., $42,911, 6 mi. Greenville-Nortonville Rd., State Project 10, Sect. C, Muhlenberg Co., rein.-con. pipe, $42,054; to T. E. Price, Lexington, grading 3.8 mi. Carlisle-Sharpsburg Rd., Federal Aid Project 61, Sect. A, Nicholas Co., $33,858.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Hancock Co., Sect. "Arcadia" Lima-Sandusky Rd. 0.461 mi., rein.-con., to Scioto Constr. Co., Kenton, $30,118.

Marion Co., Sect. "H" grade separation in Tully Twp., 0.131 mi., paving with brick, to Malloy & Seckel, Marion, $10,660.

Ashland Co., Sect. "D" Mansfield-Wooster Rd., 3.508 mi., grading additional width and paving with brick, to P. H. Agerter, 114 South McDonald St., Lima, $54,807.

Huron Co., Sect. "G-1" Oberlin-Norwalk Rd., 1.746 mi., widening foundation and paving with brick, to Hill & Hill Elyria, (street address not available), $52,477.

Huron Co., Sect. "N" Oberlin-Norwalk Rd., 1.32 mi., constructing concrete curb, to Hill & Hill, Elyria (street address not available), $7,106.

Huron Co., Sect. "O" Oberlin-Norwalk rd, 1.28 mi., constructing concrete curb, to Hill & Hill, Elyria, (street address not available), $6,636.

Huron Co., Sect. "J-2" Bellevue-Norwalk Rd., constructing concrete curb, Hill & Hill, Elyria (street address not available), $4,693. Noted Sept. 7.

O., Akron—W. C. Peters, dir Pub. Serv. grading, laying sidewalks and paving 740 ft. School St., 24 ft., engrs. est. $18,153 and 500 ft. Carpenter St., 24 ft., engrs. est. $8,203, to E. and W. McShaffrey Co., 574 Rhodes Ave., $19,141 and $9,068, respectively; 900 ft. Nieman St., 24 ft. engrs. est. $15,499, to Columbus Asphalt Paving Co., Buckye Bldg., $16,371. Noted Aug. 31.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, laying sidewalks and graveling 1,300 ft. McKinley Ave., engrs. est. $6,139, 3,000 ft. Pitkin Ave., engrs. est. $17,238, and 1,200 ft. Carlysle St., engrs. est. $7,761, to G. J. Stubbs, 30 West State St., $6,391, $16,664 and $7,421 respectively; grading, laying sidewalks and paving 150 ft. Wilbeth Rd., 26 ft., engrs. est. $5,675, to T. E. McShaffrey Constr. Co., 171 South Forge St., $5,809; repaving 500 ft. Kenmore Blvd., 20 ft., engrs. est. $7,896, to E. H. Rawle, 839 Bloomfield Ave., $8,000. Noted Aug. 31.

O., Cleveland—Paving Kipling and Halliday Aves., to Gould & Maybach, 823 East 150th St., $31,851; East 55th St., to Enterprise Paving & Constr. Co., 8444 Bway., $6,495. Work involves 4,380 lin.ft. stone curb and 4 in. drain tile gutter, 4,870 cu. yd. earth excav., 50,650 sq.ft. vitr. brick on 6 in. concrete. Noted Sept. 7.

O., Cleveland—Cuyahoga Co., paving

Streets and Roads (Continued)

Royalton Rd. 5, to Lake Erie Constr. Co., Hickox Bldg., $34,951; Lee Rd. 4, to Freshwater Constr. Co., Natl. Bldg., $140,672. Noted Sept. 7.

O., Columbus—Franklin Co., grading and paving 10.3 mi. Alkire Rd., 16 ft., asphaltic macadam, to W. M. Gray, 408 Fairwood Ave., $224,871. Noted Sept. 7.

Ind., South Bend—St. Joseph Co., concrete paving 3.8 mi. C. A. Carlisle Rd., 16 and 18 ft., to Rieth-Riley Constr. Co., Goshen, $103,800. Engrs. est. $92,000. Noted Aug. 17.

Michigan—State Hy. Dept., Lansing, grading 4.731 mi. State Trunk Line Rd. 51-2, Sect. A, Ottawa Co., 50,075 cu.yd. excav., to Kemme & Deipeirhorsh, Zeeland, $24,734.

Michigan—State Hy. Dept., Lansing, grading and surfacing 5.921 mi. State Trunk Line Rd. 35-3, Delta Co., to Stephenson & Martelle, Gladstone, incl. 26,495 cu.yd. excav. $0.55, 104.7 cu.yd. 1:2:4 concrete $20, 62.1 cu.yd. 1:3:6 concrete $18, 53,662 sq.yd. waterbound macadam $0.75, total $60,952; 2.75 mi. State Trunk Line Rd. 12-42, Iron Co., to Iron Co. Rd. Comn., Crystal Falls, 5,200 cu.yd. excav. $0.65, 115.3 cu.yd. 1:2:4 concrete $20, 29,040 sq.yd. bituminous macadam $1.45, total $52,682; 5.996 mi. Assessment Dist. Rd. 207, Huron and Tuscola Counties, to A. McDonell, Omer, 13,327 cu.yd. excav. $0.35, 181 cu.yd. 1:2:4 concrete $15, 138.1 cu.yd. 1:3:6 concrete $13, 56,183 sq.yd. gravel $0.82, total $56,826; 8.862 mi. State Trunk Line Rd. 28-9, Sect. B, Baraga Co., to Heranen Salonen, Herman, 67,570 cu.yd. excav. $0.48, 158.9 cu.yd. 1:2:4 concrete $18, 109.2 cu.yd. 1:3:6 concrete $16, total $58,914; 4.258 mi. State Trunk Line Rd. 25-4, Luce Co., to Hill Bros., Chatham, $26,328; 1.986 mi. State Trunk Line Rd. 11-7, Manistee Co., to Manistee Co. Rd. Comn., Ludington, $35,234.

Mich., Detroit—To J. Porath, 745 Griswold St., paving 2,300 sq.yd. alley between Morrell, Ferdinand, Christiancy and Dix Sts., $5,711, 800 sq.yd. alley between Fern Pl., Butler and Page Sts., $2,220; W. Tatti, 1337 Three Mile Dr., 2,100 sq.yd. alley between Belvidere, McClellan, Sylvester and Canfield Sts., $4,707; G. Nunn, 6409 3rd Ave., 1,500 sq.yd. alley between 12th, Wilson, Euclid and Philadelphia Sts., $3,828, 1,580 sq.yd. alley between 3rd, 2nd, Alexanderine and Willis Sts., $3,965, 1,440 sq.yd. alley between West Grand Blvd., Churchill, Wilson and Bethune Sts. $3,599; to Otis Cement Constr. Co., 806 Hammond Bldg., 1,520 sq.yd. alley between Crane, Rohns, Goethe and Mack Aves., $3,573, 1,100 sq.yd. alley between St. Aubin, Dubois, Erskine and Pierce Sts. $2,583, 1,380 sq.yd. alley between Concord, Canton, Kercheval and Waterloo Sts., $3,463, 670 sq.yd. alley between Chene, Grandy, Ferry and Palmer Sts., $1,659; to R. J. Powelson Co., 6415 Iroquois Ave., 1,420 sq.yd. alley between John R. Brush, Bethune and Smith Sts., $3,551, 1,260 ft. alley between Iroquois, Seneca, Gratiot and Medbury Sts., $3,160.

Wis., Beloit—Paving, etc., Portland Ave., 12,600 sq.yd. concrete, 1,500 lin.ft. combined curb and gutter, 4,000 cu.yd. earth excav., to Clayton Constr. Co., 397 Farwell Ave., Milwaukee, $29,058. Noted Aug. 17.

Wis., Mellen—Paving Main and Bennett Sts., 11,700 sq.yd. concrete, to Woodrich Constr. Co., 837 Metropolitan Life Bldg., Minneapolis, Minn., $38,470. Noted Aug. 31.

Wis., Superior—Paving 1,860 ft. 5th St. from Tower to Weeks Aves., bitulithic on 1 course concrete, 30 ft., incl., 32,000 lin.ft. concrete curb, to E. Johnson & Sons, 572 West 5th St., $32,709.

Ia., Ft. Dodge—Paving 10 blocks 11th St. S. W., asphaltic concrete, to Rasmussen & Horrabin Constr. Co., Ft. Dodge, $2.99 per sq.yd. Noted Aug. 31.

Minnesota—State Hy. Dept., St. Paul, 12 mi. State Project 13-01, Federal Aid Project 294, LeSueur Co., 266,780 cu.yd. excav., to Nelson, Fulton & Nelson, Temple Court, Minneapolis, and Nolan Bros., 18 North 2nd St., Minneapolis, $63,000. Bridges and culverts in connection with above job not yet awarded. Noted Aug. 10.

Minn., Skakopee—Grading 10 mi. road from New Prague to St. Patrick, 24 ft., Scott Co., to Nolan Bros., 18 North 2nd St., Minneapolis, and Nelson, Fulton & Nelson, 355 Temple Court, Minneapolis, $21,005; culverts to Lyle Culvert & Road Equipment Co., 171 27th Ave. S. E., Minneapolis.

Minn., Two Harbors—Lake Co., grading 39.5 mi. State Project 1-01, Federal Aid Project 282, between Little Marais and Two Harbors, 549,000 cu.yd. excav., portable and monolithic culverts, Bridge 3457, 150 ft., Bridge 3459, 380 ft., Bridge 3460, 80 ft., Bridge 3582, 220 ft., Bridge 3586, 60 ft., Bridge 3587, 50 ft., Bridge 3588, 60 ft., Bridge 3590, 40 ft., Bridge 3887, 23 ft., to A. Guthrie & Co., Inc., 366 Jackson St., St. Paul, $623,000. Noted Aug. 23.

Kan., Salina—Paving, curbing and guttering Elm, Ash, 11th and 12th Sts., Penn and Iron Aves., curbing and guttering only Jamestown Ave., to Smith Graham Constr. Co., Wichita, (street address not available), $105,958. Noted Aug. 24.

Kan., Valley Falls—For 7,000 yd. brick paving, 2,100 lin.ft. curb and gutter, 460 lin.ft. stone sewer, to Southwest Paving Co., Wichita, (street address not available), $26,978. Noted Aug. 24.

Missouri—State Hy. Dept. at div. office Bloomfield, 9.943 mi. road from Cairo to Poplar Bluff, 24 ft., Federal Aid Project 118 B, Stoddard Co., to Novaculite Constr. Co., Marion, Ill., $28,950. Noted Aug. 24.

S. D., Sioux Falls—Paving 8,969 sq.yd. 8th St. from Cliff to Asylum Aves. cement concrete, to C. H. Atkinson Paving Co., Watertown, $2 per sq.yd.; 10,815 sq.yd. 2nd Ave. from 10th St. to Chicago, St. Paul, Minneapolis & Omaha Ry. cement concrete, to S. L. Norlin, Sioux Falls, $2 per sq.yd. Noted July 20.

Tex., Beaumont—Jefferson Co. paving with 2 in. asphalt on 6 in. concrete base, to Smith Bros., 313 Sumpter Bldg., Dallas, 3 mi. Spindle Top Rd., 16 ft., 27,034 sq.yd. asphalt on concrete, 9,652 cu.yd. earth and borrow excav. $106,678, engrs. est. $117,345 incl. 10% for engineering and contingencies; 4½ mi. Port Neches Rd., 16 ft., 42,240 sq.yd. asphalt on concrete, 17,721 cu.yd. earth excav., $167,446, engrs. est. $184,000 incl. 10% for engineering and contingencies; 4½ mi. Franklin St., 16 ft., 46,933 sq.yd. asphalt on concrete, 20,133 cu.yd. earth and borrow excav., $200,086, engrs. est. $220,000 incl. 10% for engineering and contingencies; 2 mi. 60th St., 16 ft. 20,184 sq.yd. asphalt on concrete, 9,114 cu.yd. earth excav., $84,825, engr. est. $93,000 incl. 10% for engineering and contingencies; 3 mi. 7th St., 16 ft., 33,308 sq.yd. asphalt on concrete, 7,950 cu.yd. earth and borrow excav., $132,993, engrs. est. $146,000 incl. 10% for engineering and contingencies. Noted Aug. 31.

Tex., Coleman—Coleman Co. grading and graveling 10.58 mi. Highway 7 A, Federal Aid Project 303, 16, 18 and 30 ft., to Scarbrough & Davis, Gaston Bldg., Dallas, $85,848; drainage structures on 6 mi. South Anna-Rockwood Rd., concrete and timber, to Womack Constr. Co., Sherman, $6,176. Noted Aug. 17.

Tex., Ft. Worth—Topping ¾ mi. Vickery Blvd, 50 ft., (a) 22,000 sq.yd. 1 in. top cold Uvalde Rock Asphalt on graveel, (b) 7,920 lin.ft. concrete curbing, to Genl. Constr. Co., Cotton Exch. Bldg., (a) $1 per sq.yd., (b) $0.55 per lin.ft. Engrs. est. $27,000.

Tex., Seguin—Guadalupe Co. (a) grading and gravel surfacing (b) rein.-con. drainage structures, on 3.39 mi. State Highway 3,657 cu.yd. concrete, 86,240 lb. reinforcing, 10,538 cu.yd. roadway excav., 9,157 cu.yd. gravel surfacing (at pits), 13,194 cu.yd. borrow, to Ruby & Co., Blanco, (a) $9,305; to Gonzales Cement Wks., Gonzales, (b) $16,520. Engrs. est. $28,408 incl. 10% for engineering and contingencies.

Colorado—State Hy. Dept., Denver, improving 7.53 mi. Empire-Jones Pass Sect., Berthoud Pass Forest Rd. Project, Clear Creek Co., 18 ft., to Dooling Bros. & Hoffman, 305 Bank Bldg., Denver, $110,659.

Colo., Denver—Paving 11 blocks West 44th Ave. Paving Dist., concrete and asphalt, to Western Paving Co., 601 1st Natl. Bank Bldg., $25,063, 12 blocks Capitol Hill Paving Dist. 1, 36 ft., asphalt, to Gibbons & Lawrence, 4680 Vine St., $38,899. Noted Aug. 24 and 31.

Ariz., Phoenix—Maricopa Co. Highway Comn., grading, building structures and surfacing 5 mi. Project 54, 8,000 cu.yd. excav., 46,960 sq.yd. waterbound macadam, to S. B. Shumway, Mesa, $31,752.

Wash., Kelso—Bitulithic paving, and laying sanitary and storm sewers, L. I. D. No. 41, to United Constr. Co., Everett, $37,628.

California—State Hy. Comn., Sacramento, grading 13.1 mi. highway between Anderson Canyon and Sur River, Monterey Co., to G. Pollock Co., Forum Bldg., Sacramento, 910,000 cu.yd. excav. at $0.67, 3,600 cu.yd. Class A Portland cement concrete (culverts, retaining walls and monuments) $30, 2,850 cu.yd. dry rubble (retaining walls), $8, etc., total $786,805; 9.06 mi. highway between Saugus and ¾ mi. northwest of Castaic School, Los Angeles Co., to S. Hunter, 122 West Valerio St., Santa Barbara, 5,950 cu.yd. Class A Portland cement concrete (shoulders) at $9.75, total $58,012; grading and paving on corrugated metal pipe basis 10.9 mi. highway between Colusa and Long Bridge, Colusa and Sutter Counties, to Bonnell, Savage & Fenn, Tacoma, Wash., (street address not available), $113,765; grading 9.3 mi. and gravel surfacing 7.6 mi. highway between westerly boundary and Central House, Amador Co., to Blumenkranz & Vernon, Stockton, (street address not available), $102,378. Noted Aug. 10 and Sept. 7.

Calif., Belvedere — Surfacing various streets, plain asphalt, to P. L. Burr, 512 Mission St., San Francisco, $33,980. Noted Sept. 7.

Calif., Merced—Grading, curbing and paving 21st and 22nd St. from P to R Sts., 13th, 14th and 15th Sts., alleys in Blocks 84 and 112, to Valley Paving & Constr. Co., Visalia, 287,335 sq.ft. grading at $0.04 per sq.ft.; 271,603 sq.ft. 1½ in. warrenite on 3½ asphaltic concrete $0.219; 15,732 sq.ft. 1½ in. warrenite on 2½ in. aphaltic concrete $0.20; 8,606 lin.ft. concrete curb $0.80; 1,300 ft. special designed curb $0.75; 1,600 ft. wooden curb $0.20. Noted Aug. 3

Calif., Oakland—Improving 14th St. from Market to Poplar Sts., to Oakland Paving Co., 5000 Bway., 127,792 sq.ft. grading at $0.054, 774 ft. concrete curb with steel guard $1.08, 3,339 lin.ft. concrete curb without steel guard $0.95, 4,423 ft. concrete gutfor $0.315, 117,369 sq.ft. asphaltic concrete pavement $0.28, etc. Noted Aug. 31.

Calif., Oroville—Supervs. Butte Co., asphalt macadam paving 4.8 mi. Oroville-Pentz Rd., also improving Oroville-Bangor Rd., Sect. B, Route 25, 2,650 ton broken stone, surfacing 272 ton Grade E asphaltic oil, to Heafey, Moore & McNair, 2030 High St., Oakland, $34,000 and $21,600 respectively; grading and asphalt macadam paving 6.4 mi. Oroville-Pentz Rd., Sect. 22, Route C, to M. C. and T. H. Polk, Chico, $49,650; grading and graveling 3 mi. Middle Honcut Cross Rd., to S. D. Miller, Manteca, grading $0.60 per cu.yd., graveling $0.80. County furnishes material on above roads. Noted Aug. 24.

Calif., San Diego—To G. R. Daley, 4430 Boundary St., improving Exchange Pl., Soledad and Mar Aves., 574.5 cu.yd. excav. at $1.50, 56 cu.yd. earth embankment $0.10, 98,970 sq.ft. 5 in. portland cement concrete paving $0.289, 1,056 lin.ft. portland cement curb $0.70, etc., total $30,504. Noted May 25.

Que., Montreal—Pave 3,000 ft. Notre Dame St. from Atwater St. to Place St. Henry, 30 ft., $44,173; 3,000 ft. from Place St. Henry to Cote St. Paul, 50 ft., $73,167; 1,750 ft. from Cote St. Paul to city limits, 35 ft., $36,632; 2,250 ft. from Fulford to Atwater Sts., 40 ft., $37,357; 1,125 ft. from McGill to Francis Xavier Sts., 25 ft., $20,514, by day labor. E. Blanchard, engr. roads.

Ont., Cobourg—Asphalt pavements to Warren Bituminous Paving Co., 54 University Ave., Toronto, $75,000. Noted Aug. 24.

Ont., Whitby—Asphalt pavement on Brock St., to Warren Bituminous Paving Co., 54 University Ave., Toronto. $66,000.

Industrial Works

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—E. H. Blake, 18 Harvard Ave., soon lets contract 1 story, 100 x 120 ft. brick and concrete garage and repair shop, Harvard Ave. $40,000.

Mass., West Lynn (Lynn P. O.)—General Electric Co. had plans prepared 4 story, 122 x 157 ft. brick and rein.-con. factory addition. $200,000. Private plans.

Conn., Bridgeport—Huber Ice Cream Co., 800 Seaview Ave., plans 3 story and basement, brick and rein.-con plant, Seaview Ave. $150,000. Fletcher-Thompson, Inc., 542 Fairfield Ave., archts. and engrs.

Conn., Danbury—Danbury Mfg. Co., 7 New St., had plans prepared by Sunderland & Watson, archts., 248 Main St., 3 story, 60 x 100 ft. factory, brick and steel, Liberty St. $50,000.

Conn., Norwich—Amer. Thermos Bottle Co., off Laurel Hill Ave., plans large factory and warehouse. Architect not selected.

N. Y., Buffalo—Air Reduction Co., 342 Madison Ave., New York, having plans prepared by Francisco & Jacobus, archts. and engrs., 511 5th Ave., New York, brick, steel and concrete plant, plain foundation, here. $50,000.

Pa., Charleroi—West Penn Power & Traction Co., Hartje Bldg., Pittsburgh, plans power station, here. $1,000,000.

Pa., Dunmore (Scranton P. O.)—H. M. Spencer having plans prepared by Duckworth Bros., archts., c/o owners, 2 story, 40 x 300 ft. rein.-con. garage and auto exchange, Drinker St. $100,000.

Pa., Jeannette—Amer. Window Glass Co., Farmers Bank Bldg., Pittsburgh, having plans prepared twelve 1 story additions to plant, here. $1,500,000. Private plans.

Pa., Lancaster—Black Strap Fuel & Potash Products Co., 505 Chestnut St., Phila., purchased 40 acres here and plans to erect factory buildings.

Industrial Works (Continued)

Pa., New Castle—Westmoreland Paint & Color Co., Hobart St. S. S., plans large additions to factory. Architect not announced.

Pa., Pittsburgh—Fairmount Creamery Co., 301 Ferry St., having plans prepared by J. J. Howley, archt., 411 Traders Bldg., Scranton, 5 story and basement 62 x 72 ft. warehouse and 1 story and basement 38 x 72 ft. garage, 25th and Smallman Sts. $150,000.

W. Va., Nitro—Viscose Co., Marcus Hook, Pa., having plans prepared by Ballinger Co., engrs., 12th and Chestnut Sts., Phila., 1 and 2 story, 75 x 300 ft. and 42 x 82 ft., brick and steel factory, here. $500,000.

N. C., Shelby—Dover Mill Co. plans cotton mill. $400,000. J. R. Dover, pres.

Fla., Vero—Voted $50,000 bonds for addition to power plant. Carter & Damrow, city engrs.

La., Alexandria—Town having plans prepared and soon takes bids gas plant and distribution system. $110,000, also fire station and equipment, $53,000.

O., Cleveland—W. E. Grimm, 3383 De Sota Ave., had plans prepared 1 story, 40 x 100 ft., brick and timber factory, 3703 East 93rd St. $40,000. Private plans.

O., Cleveland—See "Buildings."

Ind., Sheridan—Indiana Condensed Milk Co., c/o E. W. Stout, Fletcher Amer. Bank, Indianapolis, plans 2 story, brick and steel factory. $75,000. Architect not selected.

Mich., Detroit—Amer. Car & Fdry. Co., 165 Bway., New York, soon takes bids 1 story, 175 x 275 ft. rein.-con. and brick foundry, plain foundation, Russell St., here.

Mich., Detroit—Dept. of Street Rys., Shoemaker and St. Jean Aves., plans 1 story, rein.-con., brick and steel shop, plain foundation, Woodward Ave. $100,000. W. C. Markham, 312 Marquette Bldg., engr.

Mich., Grand Rapids — Valley City Creamery Co., 666 Lake Dr., S. E., had plans prepared by H. L. Mead, archt., Grand Rapids, (street address not available), 2 story and basement, 40 x 100 ft. rein.-con., brick, steel and terra cotta creamery. $40,000.

Mich., Hamtramck (Detroit P. O.)—Dodge Bros., Jos. Campau Ave., Detroit, plans 8 story, 160 x 400 ft., rein.-con. and brick addition to auto factory, Jos. Campau Ave., here. $1,500,000. Private plans.

Ill., Chicago—S. M. Earling, 140 South Dearborn St., having plans prepared by T. R. Bishop, archt., 35 South Dearborn St., 1 story, 90 x 160 ft., rein.-con., brick and steel garage, Montrose and Greenview Sts. $50,000.

Wis., Clintonville—Service Auto Co. plans 1 story, 50 x 120 ft., brick, concrete and tile garage, plain foundation. $40,000.

Wis., Green Bay—Brown Co., c/o H. F. Wittig, Court House, plans 1 and 2 story, 62 x 130 ft., brick, rein.-con. and steel laundry, plain foundation. $60,000. Architect not selected.

Wis., Milwaukee—Magnetic Realty Co., 185 Mason St., had plans prepared 2 story and basement, 40 ft. high, 50 x 150 ft., brick and concrete garage, plain foundation, Clybourn St. $50,000. Private plans.

Wis., Milton—Burdick Cabinet Co. having plans prepared by Federal Eng. Co., engrs., 444 Milwaukee St., Milwaukee, 1 story, 80 x 160 ft., addition to factory, concrete and steel, concrete foundation. $45,000. See item under "Miscellaneous, Bids Desired."

S. D., White River—See "Dams."

Mo., Kansas City—Arkansas and Missouri Realty Co., c/o F. E. Faris, 2nd floor, New York Life Bldg., having plans prepared by J. O. Hogg, archt., 22nd and Oak Sts., 2 story, 40 x 208 ft., rein.-con., brick and stone publishing plant, 22nd and Oak Sts.

Mo., North Kansas City—Kansas Flour Mill Co., Postal Telegraph Bldg., Kansas City, having plans prepared by Burrell Eng. Co., archts. and engrs., 403 Scarritt Arcade Bldg., Kansas City, for 3,000 bbl. mill, rein.-con., brick and steel, elevator capacity 300,000 bu., here.

Calif., Atascadero—Doble Steam Motors Co., 714 Harrison St., San Francisco, soon takes bids 1½ story, 100 x 500 ft., rein.-con. factory, here. $100,000. Home Builders Service Bureau, (A. Roth), Atascadero, archts.

Calif., San Francisco—Bothin Real Estate Co., 604 Mission St., having plans prepared by A. S. Bugbee, archt., 26 Montgomery St., 3 story, garage, Natoma-Hunter and Sherwood Sts.

Que., Montreal—Dominion Government, Ottawa, Ont., approved 500 ft. extension to imperial oil plant at Longue Pointe. $250,000. W. L. McDougall, chn. Bd. Harbor Comrs. R Harvie, ch. engr.

Ont., Georgetown—J. N. O'Neil & Son, plan 2 story garage and repair shop. $50,000.

B. C., Burnaby—Phillips-Hoyt Lumber Co. plans mill here. $60,000. Prices wanted on equipment.

BIDS DESIRED

Pa., Williamsport—Oct. 1, by S. T. McCormick, 3rd., Hepburn and West 4th Sts., 1 story and part basement, 100 x 197 ft., brick, steel and concrete garage, Hepburn and Potter Sts. $100,000.

O., Cleveland—F. Svoboda, 5377 Bway., taking bids and opens same about Sept. 22, 2 story, 45 x 139 ft., rein.-con., brick and steel garage, plain foundation, Bway. and Mumford St. $60,000. Private plans. Peck & Horton, 2261 East 14th St., lessees.

Mich., Detroit—E. Gray, Jr., Continental Ave., taking bids and opens same about Sept. 23, 1 story, 34 x 260 ft. rein.-con., brick and steel service station, plain foundation, Continental Ave. $40,000.

Ill., Marshall—Oct. 5, by Mayor and City Council, new power house, 2 A. C. generators direct connected to Corliss engines, switchboard, 2 fire tube boilers, heater and feed pumps, piping, chimney, moving and resetting 1 fire tube boiler, etc.; furnishing and installing ice making machinery, 15 ton per day capacity, distilled water ice plant and erecting ice plant building. F. L. Wilcox, Chemical Bldg., St. Louis, Mo., engr.

Wis., Ashland—C. Walkusch taking bids 2 story, 50 x 95 ft., garage and repair shop, brick and rein.-con., plain foundation. $40,000. Private plans.

Wis., Antigo—Pacific Ice Cream Co. taking bids 2 story, 50 x 64 ft., brick, rein.-con. and steel, factory, plain foundation. $50,000. H. Quackenbush, mgr. Private plans.

Mo., Springfield—Sept. 25, by C. L. Rhodes Produce Co., 443 South Campbell St., 2 story and basement, 84 x 141 ft., produce plant. $50,000. Hecklenlively & Mark, 642 Landers Bldg., archts. $50,000.

BIDS RECEIVED

N. Y., Cohoes—C. L. Cadle, supt. Pub. Wks., Albany, opened bids Sept. 6, power house at Crescent Dam, here, Contr. A-3, from Brown, Lowe & Law Bros., Foster Ave., Schenectady, $329,887; Eastover Constr. Co., Herkimer (street address not available), $334,996; Troy Pub. Wks. Co., U. C. N. Bank Bldg., Utica, $340,474. Engrs. est. $313,189. Contract awarded to lowest bidder. Noted Aug. 17.

N. Y., New York—Dept. Plant & Structures, Municipal Bldg., opened bids Sept. 6, housing station, East 80th St. and East End Ave., for Dept. Street Cleaning, from T. A. Reilly, 48 East 41st St., $67,752; M. Miller, 3 West 103rd St., $69,800; Rosenthal Eng. Contg. Co., 228 Jackson St., Brooklyn, $69,830.

N. J., Trenton—Comr. of Educ., State House, opened bids Sept. 7, 32 x 86 ft., brick, steel and timber power house, etc., for State Normal School, Model Ave., general contract from Wills-Bills Co., 17th and Sansom Sts., Phila., $29,983, Carlton Constr. Co., Longacre Bldg., New York City, $31,537; heating work, from Mechanical Equipment Co., Drexel Bldg., Phila., $29,627, Deckman Power Co., Goff Bldg., Camden, $30,450, Jaehnig & Peoples, 221 13th Ave., Newark, $31,120. Noted Aug. 31.

CONTRACTS AWARDED

N. H., Salmon Falls—Salmon Falls Mfg. Co., 1 story, 30 x 80 ft. brick and rein.-con. power house and hydro-electric plant, 1,800 h.p. capacity, also redevelopment of Salmon Falls, to Central Eng. and Constr. Co., Central Falls, R. I. Engrs. est. $250,000.

Mass., Cambridge — Cambridge Rubber Co., 748 Main St., 4 story, 80 x 102 ft. factory, rein.-con. and brick, to Scully Co., 300 Main St. Archts. est. $75,000.

Mass., Fall River—Stevens Mfg. Co., Hartwell St., 85 x 95 ft. brick addition to bleachery, 45 x 55 ft. kierhouse, 18 x 30 ft. caustic house, and 25 x 36 ft. filter house, all 1 story and basement, to McNally Constr. Co., 84 North Main St. Archts. est. $60,000.

Mass., Housatonic—Monument Mills, 2 story, brick and concrete addition to plant, to F. T. Ley & Co., 499 Main St., Springfield. Archts. est. $60,000.

Mass., Mansfield—Mansfield Bleachery, Sumner St., 3 story, 50 x 136 ft. addition to plant, brick and timber, plain foundation, to E. O. Dexter, Wall St., Attleboro. Archts. est. $50,000.

Mass., Salem—Salem Laundry Co., 51 Lafayette St., 2 story and basement, 80 x 140 ft. brick and concrete laundry and garage, Lafayette St., to Morrison Constr. Co., 297 Bridge St. Archts. est. $125,000.

Mass., West Springfield (Springfield P. O.)—Wico Electric Co., 132 Liberty St., Springfield, 1 story, 90 x 400 ft. factory, brick and steel, (first unit of new plant), here, to F. T. Ley & Co., Inc., 499 Main St., Springfield. Archts. est. $100,000. Noted Aug. 31.

Mass., Worcester—Norton Co., Barbers Crossing, 4 story, 50 x 125 ft. factory, brick and concrete, near Plant No. 6, to E. J. Cross Co., 82 Foster St. Archts. est. $75,000.

Mass., Worcester — Wickwire-Spencer Steel Corp., Webster St., 3, story, 33 x 100 ft. brick and concrete factory, to replace one destroyed by fire, to E. D. Ward Co., 82 Foster St. Archts. est. $45,000.

R. I., Pawtucket—H. & B. Amer. Machine Co., 1 additional story to present 3 story factory, brick and steel, to O. O. Purington Co., 626 Industrial Trust Bldg., Providence. Archts. est. $100,000.

Conn., Devon (Milford P. O.)—Connecticut Light and Power Co., West Main St., Waterbury, 1 story, brick and rein.-con. power plant unit on east side of Housatonic River, here, to J. A. P. Crisfield Constr. Co., c/o J. A. P. Crisfield, Gravers Lane, Germantown, Phila., Pa. Engrs. est. $2,000,000. Noted July 13.

Conn., Norwalk—C. H. Harris, Inc., 116 Main St., 1 story, 111 x 120 ft., brick and steel addition to plant, Main St., to Hewlett Co., 886 Main St., Bridgeport. Archts. est. $45,000.

N. Y., Albany—Electric Supply & Equipment Co., 103 Allyn St., Hartford, Conn., 4 story, 42 x 63 ft., brick and concrete factory, plain foundation, Bway. and Church Sts., here, to Feeney & Shean Building Co., 164 Montgomery St. Archts. est. $50,000. Noted Aug. 31.

N. Y., Long Island City—James Butler, Inc., 390 Washington St., New York, rein.-con. and steel warehouse, concrete pile foundation, Mount St., here, to Amer. Concrete Steel Co., 27 Clinton St., Newark, N. J. Archts. est. $1,750,000. Noted Aug. 17.

W. Va., Beckley—Raleigh Motor Co., will build 3 story, 49 x 146 ft., brick and steel garage, by day labor. $60,000. H. M. Miller, Roanoke, Va., archt. Noted Aug. 10.

O., Cleveland—Cleveland Kraut & Pickle Co., 1191 East 22nd St., 2 story, 60 x 80 ft., brick and steel factory, 3333 Lakeside Ave., to H. G. Slatmyer & Son Constr. Co., 203 Lakeside Ave., N. W. Archts. est. $40,000. Noted July 20.

Mich., Detroit—A. Kahn, archt., 1000 Marquette Bldg., 2 story, 40 x 106 ft. rein.-con. and brick factory, plain foundation, Rose and 16th Sts., to F. N. Cooper, 6370 Gratiot Ave., for Burr-Patterson Co., 4211 Woodward Ave. Archts. est. $40,000. Noted June 29.

Mich., River Rouge (Detroit P. O.)—Ford Motor Co., Highland Park, (Detroit P. O.), 5 story, 60 x 300 ft. rein.-con., brick and steel addition to plant, plain foundation, here, to E. Winters, 752 Book Bldg., Detroit.

Wis., Appleton—W. H. St. John, 205 North Van Buren St., Green Bay, 1 story, 50 x 102 ft., brick and concrete garage, plain foundation, College Ave., here, to E. F. Miller, 1st Natl. Bank Bldg. Engrs. est. $40.000.

Wis., Eagle River—Strong & Manley, 1 story, part basement, 60 x 120 ft., brick and concrete garage, plain foundation, to Hub City Constr. & Lumber Co., Stoughton. Engrs. est. $45,000. Noted Aug. 10.

Wis., Green Bay—Sisters of Our Lady of Charity, c/o Good Shepherd Home, 1 story, 86 x 200 ft. laundry and 36 x 120 ft., boiler house, rein.-con. and brick, plain foundation, to H. Danischefsky, 1484 Humboldt Ave., Milwaukee. Engrs. est. $70,000.

Wis., La Crosse—Nelson Garment Co., 111 South 2nd St., 1 story, 92 x 160 ft., brick, rein.-con. and steel factory, plain foundation, Cameron St., to J. A. Lee, 1903 Liberty St. Engrs. est. $60,000. Noted Aug. 10.

Wis., Oshkosh—Hathaway Buick Co., 25 Church St., 1 story, 60 x 120 ft. repair and machine shop, brick and concrete, plain foundation, Main St., to C. R. Meyer & Sons, 50 State St. Engrs. est. $40,000.

Wis., Peshtigo—Peshtigo Paper Co., J. Sutherland, pres., Schautz and Sorrento Sts., Dayton, O., 68 x 150 ft. unit to paper factory, rein.-con., brick and steel, plain foundation, here, to W. E. Ule, 603 Clark St., Stevens Point. Engrs. est. $70,000.

Wis., Rosendale — Central Wisconsin Canning Co., Beaver Dam, 2 story, 60 x 180 ft. warehouse, 3 story, 50 x 80 ft. manufacturing building, 1 story, 40 x 50 ft. boiler house, 2 miscellaneous buildings each 1 story, 30 x 40 ft., all brick and timber, plain foundation, to Hutter Constr. Co., 128 Western Ave., Fond du Lac. Engrs. est. $75,000. Noted Aug. 10.

Wis., Sheboygan—W. A. Knaak Motor Co., South 13th St. and Georgia Ave., 2 story, 50 x 95 ft., garage and repair shop, brick and rein.-con., plain foundation, Georgia Ave., to C. F. Grasse & Co., 1117

Industrial Works (Continued)

Swift Ave. Engrs. est. $40,000. Noted June 22.

Wis., Sheboygan—Phoenix Chair Co., South 12th St. and Virginia Ave., 1 story, 50 x 60 ft., engine house, (incl. equipment). brick, rein.-con. and steel, plain foundation, 12th St., to Jones & Laughlin Steel Co., 440 West Lake St., Chicago. Engrs. est. $40,000.

Wis., Wausau—Ritter & Deutsch Co., 113 3rd St., 3 story, 53 x 69 ft. addition to warehouse, brick and concretee, plain foundation, to F. Krause, c/o Oppenhamer & Obel, archts., Spencer Bldg. Archts. est. $50,000.

Minn., Minneapolis—Franklin Co-operative Creamery Co., 2601 Franklin Ave. E, 2 story and basement, 28 x 152 x 155 ft. barn and garage, rein.-con., brick and tile, 2011 North 2nd St., to Union Investment Co., 325 2nd Ave. S., $70,000.

N. D., Minot—Northern Produce Co., general contract 2 story and basement, 60 x 120 ft. concrete and brick creamery, to Lantz & Mackley, Minot, $40,000.

Ark., Ft. Smith—P. Sheridan, 1107-9-11 Garrison Ave. or 907 East Main St., 2 story, 72 x 140 ft., brick addition to garage and auto service station, to J. H. Reddick Co., 619 North 20th St. Engrs. est. $40,000.

B. C., Elko—Wigwam Pulp and Paper Co., 25,000 hp. power house, concrete dam, also sulphite paper making plant, 100 ton per day, rein.-con., to McDougall & McNeill, Ltd., 514 Standard Bank Bldg., Vancouver, $3,000,000. Total cost $10,000,000.

Buildings

PROPOSED WORK

Mass., Ware—Church—Our Lady of Mt. Carmel Church plans 1 story and basement, 82 x 160 ft. brick and stone. $150,000. J. T. Sheehan, pastor. Architect not selected.

N. Y., Brooklyn—Office—One Hundred Five Court St. Corp., c/o Shampan & Shampan, archts. and engrs., 50 Court St., soon takes bids 6 story, 90 x 100 ft., brick, steel and stone, plain foundation, Court and Schermerhorn Sts. $400,000.

N. Y., New York—Apartment—Calma Realty Co., c/o G. and E. Blum, archts. and engrs., 505 5th Ave., soon takes bids 11 story, 78 x 87 ft., brick, steel and stone, plain foundation, Lexington Ave. and 93rd St. $350,000.

N. Y., New York—Apartment—Sailors Snug Harbor, c/o Helmle & Corbett, archts. and engrs., 132 West 42nd St., soon takes bids 11 story, brick, steel and stone, plain foundation, University Pl.

N. Y., New York—Hotel—Hotel Roosevelt, c/o G. B. Post, archt. and engr., 101 Park Ave., having sketches made 18 story, 215 x 215 ft., brick, steel and stone, plain foundation, Madison Ave. and 45th St. $6,000,000.

N. Y., Olean—School—Bd. Educ. rejected bids opened Aug. 14, 2 story, 105 x 168 ft., brick, Main St. $200,000. Will readvertise. A. W. E. Schoenberg, Olean, archt. Noted May 11.

N. Y., Patchogue—High School—Bd. Educ. having plans prepared by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York, brick, steel and stone, plain foundation. $500,000.

N. Y., Spring Valley—High School—Bd. Educ. having plans prepared by Ernest & Sibley, archts. and engrs., Palisade, N. J., brick, steel and stone, plain foundation. $250,000.

N. Y., Whitehall—School—Bd. Educ. having plans prepared by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York, brick, steel and stone, plain foundation. $150,000.

N. J., Bergenfield—High School—Bd. Educ. having plans prepared by Ernest & Sibley, archts. and engrs., Palisade, brick, steel and stone, plain foundation. $150,000.

N. J., Dumont—High School—Bd. Educ. having plans prepared by Ernest & Sibley, archts., Palisade, brick, steel and stone, plain foundation. $175,000.

N. J., Fort Lee—School—Bd. Educ. having sketches made by E. Sibley, archt. and engr., Palisade, brick, steel and stone. $300,000.

N. J., Maywood—School—Dept. Educ. soon takes bids brick, steel and stone, plain addition. $150,000. Ernest & Sibley, Palisade, archts. and engrs.

N. J., Trenton—Schools—Bd. Educ. having plans prepared by Ernest & Sibley, archts. and engrs., Palisade, Grade School, $150,000; High School 3, $200,000; High School 4, $200,000; all brick, steel and stone, plain foundations.

Pa., Barnesboro—High School—School Dists. of Barnesboro, Spangler, Barr and Susquehanna Twps., plans 3 story, 100 x 120 ft. joint high school. $150,000. G. R. Anderson, Barnesboro, school pres. Architect not selected.

Pa., Erie—Office and Store—H. L. Scott Bldg., having revised plans prepared by C. K. Porter, archt., 73 West Eagle St., Buffalo, N. Y., 6 story, 80 x 120 ft. $150,000.

Pa., New Castle—Temple—Ancient Accepted Scottish Rite Masons, plans 200 x 300 ft. Highland and Lincoln Aves., to exceed $150,000. Architect not announced.

Pa., Royersford—Church—Sacred Heart Roman Catholic Church having plans prepared by F. F. Durang, archt., 1220 Locust St., Phila., 1 story and basement, 34 x 100 ft. church. $150,000.

Md., Baltimore—High School—Bd. Educ. soon takes bids brick, stone and steel, Clifton Park. $500,000. R. D. Kimball, 15 West 38th St., New York iCty, archt.

Va., Richmond — Office — Medical Arts Bldg. Co. having plans prepared by H. T. Barnham, archt., Chamber of Commerce Bldg., and soon takes bids 7 story and basement, 52 x 150 ft., rein.-con. and brick. W. B. Bates, Moore Bldg., Richmond, and Hutton & Schreffler, Citizens Bank Bldg., Raleigh, N. C., engrs.

N. C., Raleigh — Theatre — Raleigh Theatre Co., Raleigh, (street address not available), plans 2 story and basement, 70 x 190 ft., rein.-con. $200,000. J. E. Beaman, Commercial Bank Bldg., mgr. Architect not selected.

Fla., Plant City—Hotel—Plant City Hotel Corp., rejected bids (unopened on account of change of plans) 7 story, 105 x 105 ft., brick and steel, Reynolds and Evers Sts. $150,000. M. L. Elliott, 413 Curry Bldg., Tampa, archt. Noted Aug. 10.

O., Cleveland — Apartment — M. Rubin, Marshall Bldg., having plans prepared by A. F. Janowitz, archt., Permanent Bldg., 3 story, brick and timber, Page Ave. $150,000.

O., Cleveland — Commercial — Standard Drug Co., East 9th St. and Bolivar Rd., plans 3 story, brick, steel and concrete, St. Clair Ave. and East 105th St. $150,000. C. E. Roseman, pres. Architect not selected.

O., Cleveland—Hospital—Dept. Pub. Welfare, 9th and Oak Sts., Columbus, having plans prepared by R. S. Harsh, state archt., Ohio-Hartman Bldg., Columbus, 3 story, brick and concrete, at Cleveland State Hospital, here. $175,000.

O., Cleveland — Office, etc. — Cleveland Desk Co., 1380 Ontario St., plans 3 story, brick, steel and concrete office and warehouse, 1263 Superior Ave. $150,000. J. C. Fassett, pres. Architect not selected.

O., Rock Creek—School—Bd. Educ. having plans prepared by Fulton, Taylor & Cahill, archts., 8120 Euclid Ave., Cleveland, 2 story, brick, steel and concrete. $150,000. H. J. Brown, pres.

Mich., Detroit—Apartment—P. Rosello, archt., 406 Congress Bldg., prepared plans 3 story, 90 x 110 ft. brick and steel, plain foundation, West Phila. Ave. $200,000. Owners name withheld.

Mich., Kalamazoo—Hotel—Park American Hotel, Main St., having preliminary plans prepared by A. M. Worthington, archt., Pratt Bldg., 5 story, 50 x 160 ft. addition to hotel and 3 story, 150 x 200 ft. brick garage, Main St. $250,000.

Mich., Muskegon—College—Bd. Educ. having plans prepared by H. H. Turner, archt., Michigan Trust Bldg., Grand Rapids, 3 or 4 story, rein.-con. and brick, incl. gymnasium, swimming pool, etc. $700,000.

Mich., Traverse City—Hospital—General Hospital having plans prepared by L. W. Frye, archt., Ann Arbor, 3 story 40 x 180 ft. rein.-con. and brick, plain foundation, Elmwood Ave. $150,000.

Ill., Chicago—Apartment—F. J. Campbell, 68th and Merrill Sts., having plans prepared by T. R. Bishop, archt., 35 South Dearborn St., three 3 story, 120 x 125 ft., rein.-con., brick and steel, 68th and Clyde Sts. $450,000.

Ill., Chicago—Apartment—F. J. Campbell, 68th and Merrill Sts., having plans prepared by T. R. Bishop, archt., 35 South Dearborn St., 3 story, rein.-con., brick and steel, Crandon and 68th Sts. $150,000.

Ill., Chicago—Apartment—T. R. Bishop, archt., 35 South Dearborn St., preparing plans and soon takes bids 3 story, 112 x 120 ft., rein.-con., brick and steel, southwest corner 68th and Merrill Sts., for F. J. Campbell, 68th and Merrill Sts. $150,000.

Ill., Chicago—College—St. Xavier's College, 4928 Cottage Grove Ave., having plans prepared by J. W. McCarthy, archt., 139 North Clark St., 3 story, rein.-con., brick and steel, 49th St. and Cottage Grove Ave. $400,000.

Ill., Chicago—Office—Graham, Anderson, Probst & White, archts., 80 East Jackson St., preparing plans 21 story, 150 x 316 ft., fireproof construction, Lawrence St. near Kenmore St. $7,000,000. Owner's name withheld.

Ill., Oak Park—Bank and Office—Hoggson Bros., archts. and engrs., 485 5th Ave. New York City, soon receive bids 3 story, brick, steel and stone, plain foundation, Lake and Marion Sts., here, for Oak Park Trust and Savings Bank. $450,000. Noted June 8.

Wis., Beloit—Lodge—Knights of Columbus, c/o M. F. George, plans 2 story, brick rein.-con. and stone, plain foundation, West Grand St. $160,000. Architect not selected.

Wis., Hartford—High-Grade School—Bd Educ., c/o Clerk, plans 2 or 3 story, 70 x 125 ft., brick, rein.-con. and stone, plain foundation. $150,000. Architect not selected.

Minn., Minneapolis—Lodge—St. Anthony Aerie of Eagles, No. 1247, c/o F. A. Pigeon, chn. building com., 19 High St. plans 4 or 5 story and basement, 100 x 165 ft. rein.-con., brick and tile, Central Ave. and 4th St. S. E. $150,000. Architect not selected.

Tex., Corpus Christi—Sanitarium—Sisters of Charity of Incarnate Word, Mother Mary John, Superioress, San Antonio, having plans prepared by A. B. and R. M. Ayres, archts., Bedell Bldg., San Antonio, and let contract about Oct. 1, 3 story, [illegible] x 130 ft., rein.-con. and brick, Booty Ave. and 3rd St., here. $150,000.

Calif., Oakland—Store and Loft—G. Clark, c/o W. Knowles, archt., Hearst Bldg., San Francisco, had plans prepared 3 story, 100 x 124 ft., rein.-con., Bway. near 15th St., here. $300,000. Roos Bros., Stockton and Market Sts., San Francisco, lessee. E. L. Soule, Rialto Bldg., San Francisco, structural engr. Leland and Haley, 58 Sutter St., San Francisco, mechanical engrs.

Calif., Sacramento—Apartment and Hotel—Rodome Corp., Travelers Hotel, having plans prepared by E. C. Hemmings, archt., Oschner Bldg., 1 story, tile, on 250 x 550 ft. site, Stockton Rd. $200,000. B. F. Hilborn, mgr.

Calif., San Francisco—Store and Club—Loyal Order of Moose No. 26, 105 Jones St., having plans prepared by O'Brien Bros., Inc., archts., 240 Montgomery St., 2 story, Market St. near 12th St.

Que., Montreal — Art School — Provincial Government, Quebec, plans 3 story, brick, St. Urbain St., $150,000. E. Cormier, Drummond Bldg., archt.

Que., Montreal—Exhibit—L. J. S. Morin, 221 Outremont Ave., plans 3 story automobile show building, brick and steel, Park Ave. $150,000.

Que., Montreal—School—Catholic School Comn., 191 Stadacona St., plans 3 story, 75 x 130 ft. rein.-con., brick and stone, St. Joseph Blvd. $175,000. J. M. Manning, secy. Gascon & Parent, 502 St. Catherine St. E., archts.

Ont., Toronto—Office—A. R. Denison, archt., Confederation Life Bldg., soon lets contract 10 story, 53 x 100 ft. concrete and steel, Bay St., for R. Reford Co., Ltd., 20 Hospital St., Montreal, Que. $600,000. Noted April 27.

BIDS DESIRED

N. Y., Albany—Municipal—Sept. 18, by Bd. Contr. & Supply, City Hall, for municipal building, Eagle and Beaver Sts. H. Rogers, 445 Bway., archt. Noted June 22.

N. Y., Brooklyn—Schools—Sept. 22, by C. B. J. Snyder, supt. School Buildings, Concord St., P. S. 193, northerly side of Ave. L from Bedford Ave. to East 26th St.; P. S. 192, southeasterly side of 18th Ave. from 47th to 48th Sts.

N. Y., Glens Falls—School—Sept. 26 (change of date), by Bd. Educ., brick, steel and stone, plain foundation. $250,000. Tooker & Marsh, 101 Park Ave., New York, archts. and engrs. Noted Aug. 31.

N. Y., New York—Apartment—J. Tishman & Sons, Inc., 280 Madison Ave., 9 story, 100 x 100 ft., brick, steel and stone, plain foundation, 146 West 55th St. $1,000,000. Work will be done by separate contracts. Schwartz & Gross, 347 5th Ave., archts. and engrs.

Pa., Clark Summit—School—Sept. 25, by Bd. Educ. 2 story, 154 x 156 ft., brick, Clark Green Highway. $150,000. H. C. Rutherford, 316 North Washington Ave., Scranton, archt.

Pa., Monaca — Hospital — Bd. Comrs. Beaver Co., Court House, Beaver, taking bids 2 story, 30 x 272 ft. hospital, near

Buildings (Continued)

here. $150,000. Carlisle & Sharrer, Jenkins Arcade, Pittsburgh, archts.

Pa., Phila. — Apartment — R. C. Loos, archt., 2218 Chestnut St., taking bids 4 story, 85 x 125 ft., brick and steel, plain foundation, 43rd and Chestnut Sts. $150,000. Owner c/o architect.

Pa., Phila. — Apartment — N. Raidman, 5130 Walnut St., taking bids 4 story and basement, 50 x 100 ft., brick and steel, Pine, 48th and 49th Sts. $250,000. Simon & Simon, 249 South Juniper St., archt.

Pa., Phila.—Stores and Theatre—H. C. Hodgens, archt., 130 South 15th St., taking bids 2 story, 62 x 120 ft., rein.-con., steel and brick, plain foundation, 63rd St. and Woodland Ave., for Stanley Co., 1218 Market St. $200,000.

Pa., Pittsburgh—Apartment Hotel—Sept. 19, by Rutan, Russell & Wood, archts., Century Bldg., 10 story, brick and tile, Forbes, 5th and Bigelow Sts., for Schenley Apts. Co., 3929 Forbes St. $3,500,000. Noted June 15.

Pa., Pittsburg — Cafeteria and Office — Foster Restaurant Inc., 324-328 Diamond St., will build 4 story and basement, 55 x 91 ft., Diamond St. and Cherry Alley. $200,000. Work will be done by separate contract. E. P. Mellon, 350 Madison Ave., New York, archt.

Md., Baltimore—Bank—Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., Chicago, taking bids 6 story, brick and steel, Light and German Sts., here, for Citizens Natl. Bank, Pratt and Hanover Sts., Baltimore. $200,000.

D. C., Wash.—Monastery—Sept. 20 by Sisters of the Visitation, for monastery. Marsh & Peters, 1302 F St., N.W., archts. A. B. Mullett & Co., Union Trust Bldg., associated archts.

D. C., Wash.—Office—Sept. 27 by C. Gilbert, archt., 244 Madison Ave., New York City, stone, brick and steel, here, for U. S. Chamber of Commerce c/o L. A. Skinner, secy., Mills Bldg. $1,500,000. Noted April 6.

O., Brookville—School—Oct. 6, by G. M. Grau, clk. Bd. Educ. of Brookville Village School Dist., 2 story, 80 x 120 ft., rein.-con. and brick, plain foundation. $150,000. Walker & Norwich, 1301 Amer. Bldg., Dayton, archts.

O., Findlay—Bank and Office—Sept. 23, by P. M. Hulskin, archt., 216 West Market St., Lima, 4 story, 42 x 200 ft., brick, steel and concrete, Main and Crawford Sts., here, for Buckeye Commercial Bank. $250,000. R. W. Moore, cashier.

Ill., Chicago—Apartment—E. E. Hall, archt., 123 West Madison St., taking bids 3 story, 120 x 250 ft. rein.-con. and brick, Sheridan and Waveland Rds. $400,000. Owner's name withheld.

Ill., Chicago—Apartment—O. Van Gunten, archt., 800 North Clark St., taking bids 3 story, rein.-con., brick and steel, Juneway Terrace and Ashland St., for J. J. Fairweather, 108 South La Salle St. $300,000.

Ill., Chicago—Store, Office and Apartment—Leichenko & Essear, archts., 38 South Dearborn St., taking bids 3 story, 78 x 130 ft. rein.-con. and brick, Madison and Lockwood Aves. $200,000. Owner's name withheld.

Wis., Milwaukee—Store and Office—C. H. Thoringer, archt., 3328 State St., taking bids 2 story and basement, 100 x 120 ft., brick and tile, plain foundation, North Ave., for Dougherty Bros., 803 Grand Ave. $150,000.

Ia., Cedar Rapids—High School—Oct. 2, by Bd. Educ., c/o J. A. Motejl, secy., 705 1st Ave., 3 story, 160 x 200 ft., rein.-con., brick, tile and stone, 20th St. and Ave. B, E., $475,000. F. Tustison Co., 322 Auditorium Bldg., Minneapolis, Minn., engrs. B. Rugh, 811 Security Bldg., archt. Noted Aug. 31.

Minn., St. Paul—High School—Sept. 18, by H. W. Austin, city purch. agt., 3 story and basement, 150 x 250 ft. with 1 story, 48 x 90 ft. wing, rein.-con., brick and tile, Isabel and Congress Sts. $300,000. Noted Aug. 10.

Kan., Topeka—Temple—Scottish Rite Masons taking bids 3 story and basement, 140 x 204 ft., rein.-con., brick and stone, 10th and Van Buren Sts. $600,000. F. W. Williamson & Co., 312 Central Ave., archts. W. F. Klemp & Co., 2131 Turner St., Chicago, structural engr.

Mo., Kansas City—Hotel—State Hotel Co., 311 Commerce Bldg., taking bids 10 story and basement, 50 x 142 ft., 12th and Wyandotte Sts. McKechnig & Trask, 719 Gloyd Bldg., archt. W. W. Huff, 314 Interstate Bldg., structural engr.

BIDS RECEIVED

N. Y., New York—Museum—Park Bd., Municipal Bldg., opened bids Sept. 7, new wing to be known as southeast wing, and court building known as Hall of Ocean Life, and passage to connect the 2 buildings, for Amer. Museum of Natural History, (1) general contract, (2) plumbing work, (3) steam heating and fume removal apparatus, etc., (4) ventilation and humidifying apparatus, from J. Stewart & Co., 30 Church St., (1) $1,069,900, T. Dwyer, Bway. and 216th St., (1) $1,161,875, Niewenhouse Co., 316 East 161st St., (1) $1,072,250; P. F. Kenny Sons, 33 Old Bway., (2) $23,961, J. D. Duffy, 315 East 23rd St., (2) $31,171, T. E. O'Brien, Inc., 6311 5th Ave., Brooklyn, (2) $32,690; Federal Heating Co., 300 Madison Ave., (3) $66,431, (4) $22,239, Austin Eng. Co., 124 West 42nd St., (3) $67,372, (4) $23,772, Giles & Geoghan, 537 West Bway., (3) $69,090, Baker Smith Co., Inc., 576 Greenwich St., (4) $19,600. Noted Aug. 31.

Pa., Erie—School—School Dist. opened bids general contract for Roosevelt School, 2 story, 203 x 303 ft. concrete brick and steel, from Wagner Constr. Co., Erie, $430,000; steam heating from Becker-Seidel Co., Prospect Ave., N. W., Cleveland, O., $74,900. Noted Aug. 17.

Pa., Phila.—School—Bd. Educ. opened bids Sept. 7, 2 story, 113 x 134 ft., Palmetto and Bleigh Sts., from Kober Constr. Co., 34 South 17th St., $246,779; Monagahan M. Losee, 3016 Chestnut St., $275,663; Barnes & McLaughlin, 17 South 17th St., $278,797.

O., Columbus—Administration, etc.—C. E. Steele, secy. Bd. Trustees Ohio State University, opened bids Sept. 7, (1) 3 story and basement, 100 x 180 ft. administration building, (2) 4 story and basement, 75 x 145 ft. medical science building, both brick, stone and concrete, on campus, from E. H. Latham Co., 60 East Broad St., (1) $376,284 (2) $289,694; Danis-Hunt Constr. Co., 907 Schwind Bldg., Dayton, (1) $385,000; D. W. McGrath & Sons, 255 East Broad St., (1) $386,855 (2) $313,618; E. Elford, 307 East Gay St., (2) $330,000. Above bids rejected, (above architects estimate). Will readvertise. Noted Aug. 17.

Col., Denver — Temple — Colorado Consistory 1, Temple Bldg., general contract 3 story, 125 x 125 ft., (a) stone (b) terra cotta, from F. H. Cowell, Central Savings Bank Bldg., (a) $463,614, (b) $441,286; F. Varnum, Interstate Trust Bldg., (a) $464,672, (b) $451,922; P. Seerie, Interstate Trust Bldg., (a) $474,353; heating from J. P. Pfieffer, 1140 California St., $63,104. Noted Aug. 10.

Calif., Kerman—High School—Kerman Union High School Dist., constructing high school, general contract from Collman & Speidel, Monadnock Bldg., San Francisco, $143,187; J. H. Palm, Kingsburg, $144,800; Trewhitt-Shields Co., Rowell Bldg., Fresno, $146,000, (structure complete $207,000). Noted Aug. 10.

CONTRACTS AWARDED

Mass., Medford—High School—Bd. Educ., 3 story, brick and concrete, plain foundation, Harvard and Yale Sts., to Coblo & Griffith, 46 Cornhill St., Boston. Archts. est. $350,000. Noted June 8.

Mass., Newton (Boston P. O.)—Science—Boston College, 3 story, 140 x 175 ft. brick and stone, Commonwealth Ave. and College Rd., to Walsh Bros. Co., 150 Hampshire St., Cambridge. Archts. est. $400,000. Noted Sept. 22, 1922.

Mass., Springfield—Church and Parish House—Trinity-Grace Church, 37 Edwards St., 1 story and basement, 65 x 110 ft. church, and 2 story 80 x 80 ft. parish house, both brick and stone, Sumner Ave., to E. F. Miner Building Co., 82 Foster St., Worcester. Archts. est. $150,000.

Mass., Worcester—Mercantile—Printers Building Trust, Portland St., 7 story, 100 x 135 ft. brick and rein.-con., Portland St., to E. J. Cross, 82 Foster St. Archts. est. $350,000.

N. Y., Albany—School—Bd. Contr. & Supply, City Hall, P. S. 20, 3 story, 62 x 196 ft. with 32 x 89 ft. wing, brick, North Pearl St., to W. G. Sheehan Constr. Co., 28 Dewitt St., $191,364. Noted Sept. 7.

N. Y., Brooklyn — Apartment — E. Laughan, c/o Cohn Bros., archts. and engrs., 361 Stone Ave., 50 x 100 ft., brick, steel and stone, plain foundation, Chester St., by day labor. $200,000.

N. Y., Brooklyn—Exchange—New York Telephone, 15 Dey St., New York, 2 story, 100 x 100 ft., brick, steel and stone, Coney Island Ave. and Ave. B, here, to E. E. Paul Co., 101 Park Ave., New York. Archts. est. $200,000. Noted Aug. 17.

N. Y., Rochester—School—St. Boniface Church Society, 330 Gregory St., masonry and carpentry contract for 135 x 154 ft., brick, 11 Whalin St., to A. W. Hopeman & Sons Co., 569 Lyell Ave. Archts. est. $200,000. Noted Aug. 24.

Pa., Erie—Home—J. M. Gannon, bishop of Catholic Dioceses, 205 West 9th St., orphan home, 6th St., for St. Josephs Home for Children, to Kirschner Bros., Erie (streets address not available). $346,000. Noted July 27.

Pa., Punxsutawney—Club—B.P.O.E. 301, 3 story, 45 x 125 ft. brick and steel, Finley St., to Powell Bros., Spirit Bldg. Archts. est. $150,000.

Pa., Waynesburg—Bank and Office—Citizens Natl. Bank, 3 story, 60 x 180 ft. brick, steel and stone, plain foundation, High and Washington Sts., to M. Zeisler, 79 Wall St., New York. Archts. est. $275,000.

Md., Baltimore—Hospital—E. H. Glidden, archt., 1210 Amer. Bldg., group of 9 buildings, incl. administration, 3 pavilions, nurses' home, power house, etc., also grading and sewers, for Baltimore City Hospital for communicable diseases, Hillen Rd., to Price Constr. Co., Maryland Trust Bldg., $658,600. Noted Aug. 31.

D. C., Wash. — Office — U. S. Realty & Impvt. Co., 816 Connecticut Ave., N. W., 10 story, Indiana limestone, 17th and H Sts., N. W., to G. A. Fuller Co., Munsey Bldg. Total cost $4,000,000.

La., Baton Rouge—Sanitorium—A. Gassler, pastor, Baton Rouge, general contract 4 story, 91½ x 223 ft. rein.-con., brick and tile, to J. V. and R. T. Burkes, Carondelet Bldg., New Orleans, $162,540; plumbing and heating, to P. Brashear, Alexandria, $31,500. Noted Aug. 17.

O., Cleveland — Apartment — F and S Realty Co., c/o H. Figler, 810 Ulmer Bldg., 3 story, 82 x 115 ft., brick and timber, 1757 Page Ave., to M. Rosen, 3223 East 123rd St. Archts. est. $150,000.

O., Columbus—College of Commerce—Bd. Trustees Ohio State University, 4 story and basement, 120 x 185 ft., brick, stone and concrete, on campus, to E. H. Latham Co., 60 East Broad St., $289,694. Noted Aug. 17.

O., Columbus—School—Bd. Educ., Town and High Sts., 2 story and basement, brick and concrete addition, 11th Ave., to D. W. McGrath & Sons, 255 East Broad St., $127,585. Noted March 9.

O., Elyria—School—Bd. Educ., Roosevelt School, 2 story, brick, steel and concrete, to J. Halpin, Elyria (street address not available), $130,475. Noted Aug. 24.

O., Greenfield—High School—Bd. Educ. 2 story and basement, brick, stone and concrete, to Danis Hunt Constr. Co., 907 Schwind Bldg., Dayton, $2344,000. Noted Sept. 7.

O., Shaker Heights—Grade School — Bd. Educ., 2 story, 136 x 152 ft., brick, steel and concrete, Woodbury Rd., to Parrish Bros., Wick Ave., Youngstown, $198,750. Noted Aug. 10.

Ind., Indianapolis—Sales—Olin Sales Co., 509 North Meridian St., 3 story and basement, 51½ x 195 ft., brick, North Meridian St., to W. P. Jungclaus Co., 825 Massachusetts Ave. Archts. est. $150,000. Noted Sept. 7.

Mich., Detroit—Apartment—Apartment Finance Corp., 555 Equity Bldg., masonry contract for 4 story and basement, 60 x 120 ft. rein.-con., brick and steel, plain foundation, Collingwood Ave., to C. Schollenberger, 4853 Underwood Ave. Archts. est. $175,000.

Mich., Royal Oak (Detroit P. O.)—School —Bd. Educ., 2 story and basement, 20 room, rein.-con., brick and steel, plain foundation, to N. A. Starr, Royal Oak. $230,000.

Ill., Austin—Store and Office—Maccabee Temple of Austin, 2 story, 120 x 125 ft. fireproof, Chicago and Waller Sts., to F. O. Johnson, 4856 Christiana Ave. Archts. est. $150,000.

Ill., Chicago — Recreation — South Park Comm., 57th St. and Cottage Grove Ave., rein.-con., brick and steel recreation buildings, Calumet Park, to E. J. Hardtke, 10604 Ave. G. Engrs. est. $300,000.

Ill., Moline — Church — First Methodist Episcopal Church, 1 story, 90 x 95 ft., rein.-con., brick and steel, 7th and 17th Sts., to T. Stark Co., 118 South 11th St., W., Cedar Rapids, Ia. Archts. est. $150,000.

Wis., Madison—Office—Madison Gas & Electric Co., 120 East Main St., 2 story, 96 x 174 ft., brick, rein.-con. and stone, plain foundation, Mifflin St., to J. H. Findorff & Son, 601 West Wilson St. Engrs. est. $150,000. Noted May 11.

Buildings (Continued)

Wis., Plymouth—Hotel—J. E. Curtiss, 2 story, 80 x 104 ft. brick, rein.-con. and steel, plain foundation, to Van Wagner Bros. Co., Plymouth. Engrs. est. $150,000. Noted July 20.

Ia., Davenport—Lodge—Fraternal Order of Eagles, Davenport Aerie 235, general contract 3 story, 80 x 150 ft., brick, tile and terra cotta, 4th and Scott Sts., to Central Eng. Co., 711 Putnam Bldg., $204,974. Noted April 27.

Minn., Milaca—Courthouse—Mille Lacs Co., 2 story and basement, 75 x 115 ft. rein.-con., brick and tile, general contract, to J. A. McDonald Constr. Co., 750 Builders Exchange, Minneapolis, main bid $115,800, alternate for stone $4,500. Noted Aug. 17.

Minn., Minneapolis — Apartment and Store—J. A. McDonald Constr. Co., 748 Builders Exch. Bldg., will build 2 story and basement, 114 x 116 ft. brick, concrete and stone, 22nd St. and Lyndale Ave., by day labor. $150,000.

Minn., Northfield—Dormitory—Carleton College, 4 story and basement, 52 ft. high, 40 x 140 ft. with 16 x 40 ft. wing, rein.-con., brick and tile, general contract to H. N. Leighton Co., 127 South 10th St., Minneapolis. Total $150,000.

Okla., Bartlesville—Convention Hall—For 2 story and basement, rein.-con., brick and stone, to W. S. Bellows Co., 812 Herskowitz Bldg., Oklahoma City, $207,450. Noted Feb. 2.

Calif., Bakersfield—Lodge—Bakersfield Lodge of Elks, 4 story, rein.-con., general contract to Currie & Dulgar, Bakersfield; plumbing, heating and ventilating, to Burnham Plumbing Co., 2020 Webster St., San Francisco. Noted Mar. 9.

Calif., Fresno — Theatre — W. Harrison, constructing theatre, to T. J. Mooney, Palace Hotel, $150,000. Contractor wants catalogs on theatre equipment.

Calif., Oakland—High School—Bd. Educ., Golden Gate Junior High School, 1 story, brick and tile, general contract to A. Olson, 351 12th St., $66,538. Bids for brick work rejected, new bids. Noted Aug. 10.

Que., Montreal—Hospital—Notre Dame Hospital, Notre Dame St. E., 6 story, 44 x 137 ft., with 44 x 180 ft. wing, both 90 ft. high, brick and stone, to A. Gratton, 142 5th Ave., $450,000; plumbing, heating, ventilating, etc., to Garth & Co., Craig St. W. Total est. $800,000. Noted May 11.

Que., Montreal—School—Catholic School Comn., 87 St. Catherine St. W., 3 story, 75 x 150 ft. brick and stone, Demontigny St., St. James Ward, to A. and D. Boileau, 546 Fabre St., $153,800. Noted Aug. 24.

B. C., Vancouver—Office—J. J. Coughlan, 738 Granville St., 6 story, 50 x 60 ft. brick, steel and terra cotta, Granville St. near Robson St., to F. T. Sherborne, 736 Granville St., cost plus percentage basis. Archts. est. between $150,000 and $175,000. Noted Aug. 31.

Federal Government Work

PROPOSED WORK

R. I., Providence—Dredging—U. S. Engineer plans dredging in Milford Harbor, Conn.

N. Y., Chelsea—Hospital—Treas. Dept., Wash., D. C., soon receives bids for U. S. Veterans Hospital, here.

N. Y., New York—Dredging—U. S. Engineer, 710 Army Bldg., 39 Whitehall St., plans dredging in Newtown Creek.

Fla., Jacksonville—Lock and Dam—U. S. Engineer plans lock and dam at Mass Bluff, Oklawaha River.

Miss., Gulfport—Hospital—Treas. Dept., Wash., D. C., plans U. S. Veterans Hospital, here.

Tenn., Nashville—Dump Scows—U. S. Engineer, Custom House, soon receives bids 3 steel dump scows, 125 cu.yd. capacity. J. R. Slattery, officer in charge.

BIDS DESIRED

W. Va., Charlestown—Post Office—Oct. 6, by Treas. Dept., Wash., D. C., construction incl. mechanical equipment of post office, here. J. A. Wetmore, acting supervising archt.; adv. this issue.

Ala., Mobile—Towboat—Oct. 10, by U. S. Engineer Office, Mobile, one 100 ft. Diesel-Electric towboat; adv. this issue.

Ala., Tuskegee—Telephone System—Oct. 4, by Treas. Dept., Wash., D. C., for automatic telephone system in U. S. Veterans Hospital, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Tenn., Memphis—Portland Cement—Sept. 27, at office Mississippi River Comn., 1st and 2nd Dists., Custom House, 24,000 sacks Portland cement; adv. this issue.

Ill., Broadview (Bellewood P. O.)—Buildings—Sept. 15, by General Supt. Air Mail Service, Room 320, Post Office Dept., Wash., D. C., 1 and 2 story warehouse, factory and assembly buildings, also two 100 x 100 ft. hangars. Entire floor space 78,100 sq.ft.

Ariz., Yuma—Earthwork—Oct. 16, at office U. S. Recl. Service, for earthwork, First Mesa Div., Yuma Auxiliary Project, about 10 mi. south of here. M. Bien, acting dir.; adv. this issue.

Cuba, Quantanamo — Chimney — Spec. 4705—Sept. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., rein.-con. chimney, here. Noted Aug. 31.

BIDS RECEIVED

Md., Baltimore — Remodeling — Treas. Dept., Wash., D. C., remodeling U. S. Quarantine Station, here, from Northeastern Constr. Co., Lexington Bldg., $58,900, add $12,950 for nurses quarters, add $3,150 for attendants quarters; J. L. Robinson Const.r Co., 1130 West Lafayette St., $59,900, add $13,659 for nurses quarters, add $2,461 for attendants quarters.

Va., Hampton Roads—Riprap Protection—Spec. 4699—Bureau Yards & Docks, Navy Dept., Wash., D. C., riprap protection for north breakwater, at submarine base, here, (1) work complete, from Arundel Corp., Pier 2, Pratt St., Baltimore, Md., (1) $3.05 (150 days) (2) $2.98 (170 days) (3) $2.96 (180 days); McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., (1) $3.38 (250 days) (2) $3.38 (300 days) (3) $3.38 (325 days); ;R. G. Lassiter & Co., 327 Arcade Bldg., Norfolk, (1) $3.65 (180 days) (3) $3.40 (180 days). Noted Aug. 24.

CONTRACTS AWARDED

Ga., Augusta—Roads and Walks—Treas. Dept., Wash., D. C., sand and gravel roads and walks at U. S. Public Health Service Hospital here, to Hodgson & Jones, Montgomery, Ala., $17,900. Noted Sept. 7.

Tenn., Nashville—Steel Gates—U. S. Engineer, steel gates for Lock F, Cumberland River, to Penn Bridge Co., Beaver Falls, Pa., $22,783. Noted Aug. 3.

Utah, Spanish Fork—Post Office—Treas. Dept., Wash., D. C., constructing post office, here, to G. A. Whitmeyer, 826 25th St., Ogden, $39,800. Noted Sept. 7.

H. T., Pearl Harbor—Quaywalls, etc.—Spec. 4591—Bureau Yards & Docks, Navy Dept., Wash., D. C., quaywalls and pier at Naval operating base, here, to E. J. Lord, McCandless Bldg., Honolulu, $749,160 (450 days). Noted Aug. 21.

Miscellaneous

PROPOSED WORK

Subway Platform—Boston, Mass.—Transit Dept., 1 Beacon St., plans platform subway station, Park St. $250,000. E. R. Springer, 1 Beacon St., ch. engr.

Culvert—Auburn, N. Y.—See "Street and Roads."

Snow Plows, etc.—Rochester, N. Y.—Bd. Supervs. Monroe Co. soon takes bids 16 snow plows and other equipment for attachment to highway trucks, also snow plows and equipment for clearing highways, for use on tractors, owned by county. $1,000. G. C. Wright, co. engr.

Terminal Facilities etc. — Virginia — Chesapeake & Ohio Ry. Co., 61 Bway., New York City, plans to expend $16,500,000 for extending terminal facilities on Hampton Roads, enlarging round houses and making other extensions, also new coal pier at Newport News and enlarging terminal facilities at Norfolk. C. W. Johns, 1006 Park Ave., Richmond, engr. construction.

Coal Tipple—Piedmont, W. Va.—American Coal Co. plans to rebuild coal tipple, recently destroyed by fire. $60,000. Architect not announced.

Tunnels—Detroit, Mich.—City preparing tentative plans rein.-con. tunnels under street car tracks, to have stairways between sidewalks and curb. $75,000. J. W. Reid, City Hall, engr.

Heating Conduit—Camp Douglas, Wis.—Wisconsin Natl. Guard making plans 1,500 lin.ft. heating conduit. H. C. Hengels, 445 Milwaukee St., Milwaukee, engr. $25,000.

Retaining Wall—Kansas City, Mo.—Passed ordinance to construct retaining wall along northwest line of Allen Ave. $50,000.

Amusement Park, etc.—Modesto, Calif.—Garden of Allah Park, c/o Ellery, Frost & Patten, engrs., Merchants Exch. Bldg., San Francisco, having plans prepared 125 x 225 ft. main building, amusement structures, bowling alleys, 23 permanent cottages, swimming tank, etc., all frame and stucco construction. $325,000.

Gas Mains — Montreal, Que. — Montreal Light, Heat & Power Co., Craig St. W., plans 1,640 ft. of 4 in. c.i. pipe in Cote des Neiges from Shakespeare Ave. to Viewpoint Court $5,330, 642 ft. 6 in. c.i. pipe in Riverside St. from Forfar to Mill Sts. $2,395, 5,742 ft. 30 in. c.i. pipe in Bercy St. from Ontario to Davidson Aves. $84,174, 6,813 ft. 24 in. c.i. pipe in Lafontaine St. from Davidson to George V Aves. $81,014, 1,154 ft. 12 in. c.i. pipe in Davidson Ave. from Lafontaine to St. Catherine Sts. $5,766, 546 ft. 8 in. c.i. pipe in Davidson Ave. from St. Catherine to Notre Dame Sts. $2,117.

Harbor Improvements—Montreal, Que.—Dominion Government, Ottawa, Ont., approved following works for Montreal Harbor: extending Jacques Cartier Pier 300 ft., $200,000; extending Alexander Pier, 300 ft., $400,000; extending King Edward Pier 300 ft., $450,000; improving channel approach to Bickerdike Pier, $97,850; paving and extending Harbor Rv. terminals to new wharf levels, east of Sect. 25, $50,000. W. L. McDougall, chn. Bd. Harbor Comrs. R. Harvie, ch. engr.

Replacing Wires — Outremont, Que.—Plans replacing wires, etc., in underground conduits. $72,345. E. T. Sampson, city clk.

Harbor Developments—Hamilton, Ont.—Hamilton Harbor Comn. having plans prepared harbor front development and reclamation of land. Plans to proceed as soon as possible with first unit, costing $1,077,000, mostly reclamation work. Total $13,000,000. A. Guy, chn. E. V. Gray, city engr. Gore, Nasmith & Storrie, Confederation Life Bldg., Toronto, engrs.

BIDS DESIRED

Heating and Ventilating Apparatus, etc—Brooklyn, N. Y.—Sept. 22, by C. B. J. Snyder, supt. School Buildings, Concord St., installing heating, ventilating and temperature-regulating apparatus, etc., in P. S. 67, easterly side of St. Edwards St. about 325 ft. northerly from Auburn Pl.

Heating and Ventilating Apparatus, etc—Elmhurst (Flushing P. O.) N. Y.—Sept 22, by C. B. J. Snyder, supt, School Buildings, Concord St., Brooklyn, installing heating, ventilating and temperature-regulating apparatus in P. S. 102, southerly side of Van Horn St., between Lewis Ave. and Laconia St., here.

Clam Shell Bucket, etc.—New York, N. Y.—Sept. 21, by Bd. Purch., Municipal Bldg., furnishing and delivering clam shell bucket and combination punch, splitting shear, bar, angle and tee cutter, to Dept. Plant & Structures.

Pipe, etc.—New York, N. Y.—Sept. 21, by Bd. Purch., Municipal Bldg., furnishing and delivering pipe, pipe fittings, valves, also engineers, plumbers' and steamfitters' supplies, to Dept. Pub. Welfare.

Snow Plows—Delaware—Sept. 27, by State Hy. Dept., Dover, two snow plows, Contr. CK-8A; adv. this issue.

Structural Steel—Milton, Wis.—Burdick Cabinet Co. taking bids structural steel for 1 story, 80 x 160 ft., addition to factory, concrete and steel, concrete foundation. Federal Eng. Co., 444 Milwaukee St., Milwaukee, engrs.

Road Oil, Crushed Rock, etc.—Santa Cruz, Calif.—Santa Cruz Co. in market for 50,000 bbl. road oil, 10,000 ton ⅜ to 2½ in. crushed rock, 35,000 ton base rock and 5,000 ton screenings. Former bids rejected. L. Bowman, co. surv.

BIDS RECEIVED

Dumping Platform—New York, N. Y.—J. H. Delaney, comr. Docks, Pier "A" foot of Battery Pl., opened bids Sept. 8, improving Brooklyn Bridge, Manhattan Boro. incl. (1) rein.-con. dumping platform, (2) water supply, from G. B. Spearin, 90 West St., (1) $108,253; McHarg Barton Co., 1328 Bway., (1) $108,391; Northeastern Constr. Co., 101 Park Ave., (1) $116,080; Altman Plumbing Co., 219 East 25th St., (2) $6,585. Noted Aug. 31.

Portland Cement, etc.—St. Paul, Minn.—W. Austin, city purch. agt., opened bids Sept. 5, 3,000 bbl. Amer. Portland cement, from Speakes Co., Griggs and Fuller Sts., $2.69 on track, $2.85 delivered St. Paul Builders Material Co., 605 Ryan Annex. $2.73 on track, Thompson Yards, 1645 Hennepin Ave., Minneapolis, $3.40 (sacks extra) truck delivered; 250 bbl. Atlas-white non-staining portland cement, from St. Paul Builders Material Co., 605 Ryan Annex, and Speakes Co., Griggs and Fuller Sts., $8.00 on track and $8.50 delivered, Thompson Yards, 1645 Hennepin Ave., Minneapolis, $8.50 delivered; 1,400 cu.yd. 2 in. gravel, J. L. Shiely Co., 305 Dakota Bldg, $2.65, T. McDonald Contg. Co., Prior Ave. and Cottonwood St., $2.80; 700 cu.yd. washed sand, J. L. Shiely Co., 805 Dakota Bldg., $1.45, T. McDonald

Miscellaneous (Continued)

Contg. Co., Prior Ave. and Cottonwood St., $1.60. Noted **Aug. 31.**

CONTRACTS AWARDED

Sub-structure and Foundations—Everett, Mass.—Boston Elevated Ry. Co., 108 Massachusetts Ave., Boston, substructures and foundations for two 160 x 300 ft. and two 53 x 56 ft. car repair shops, and 80 x 731 ft. transfer shop, here, to Simpson Bros. Corp., 166 Devonshire St., Boston. Archts. est. $3,000,000 complete. **Noted Aug. 31.**

Coal Pocket—Woonsocket, R. I.—Lawton Spinning Co., 748 Winter St., rein.-con. coal trestle, 355 ft. long, 15 ft. wide, 14 ft. deep, to Central Eng. and Constr. Co., Central Falls. Archts. est. **$25,000.**

Passenger Vessels—Buffalo, N. Y.—Detroit-Cleveland Navigation Co., foot of Main St., Buffalo, and foot of 3rd St., Detroit, Mich., two 551 ft. passenger vessels, 58 ft. beam, fitted with sidewheel propulsion, 600 staterooms in each, for use on Lake Erie, to Amer. Shipbuilding Co., foot of West 54th St., Cleveland, O. Engrs. est. $2,500,000 each. Noted June 8.

Ornamental Lights—Long Branch, N. J. Bd. City Comrs., Council Chambers, ornamental lights on Ocean Ave. from Sea View to Brighton Aves., to Central Station Equipment Co., 114 Liberty St., New York, $37,969. Noted Aug. 24.

Steam Mains—Wilkes-Barre, Pa.—Pennsylvania Power & Light Co., laying 2,100 ft. 6 in. steam mains under West Market, North River and West Union Sts., to Amer. Dist. Steam Heating Co., c/o owners; excav., to Phoenix Utilities Co., c/o owners. Total est. **$35,000.**

Lumber and Cement—New Orleans, La.—Bd. Port Comrs., Canal St., 958 creosoted piles and 506,000 ft. creosoted lumber and timber for sacking plant, to Creosoted Materials Co., Queen and Crescent Bldg., $21,922 and $29,607 respectively; 3,000 bbl. cement, to J. W. Thompson, Canal Commercial Bldg., $9,000.

Bank Protection—Bartlett, Ia.—Fremont Co. D.D. 1, Sidney, 8 retards, 850 ft. long, and 26 Bignell anchor piles, to protect 3 mi. shore line of Missouri River, here, to Woods Bros. Constr. Co., 113 South 13th St., Lincoln, Neb. Engrs. est. $40,000.

Bridge Protection, etc.—Council Bluffs, Ia.—Illinois Central R.R., 135 East 11th Pl., Chicago, 6 standard current retards, 900 lin.ft. long, and 27 Bignell anchor piles, to protect embankment and bridge abutments across Missouri River, here, to Woods Bros. Constr. Co., 113 South 13th St., Lincoln, Neb. Engrs. est. $45,000.

Elevator, etc.—Salina, Kans.—H. D. Lee Flour Mills Co. elevator, tempering bins and cleaner house, Santa Fe Ave., to Jones-Heddelstetter Constr. Co., 706 Mutual Bldg., Kansas City, Mo., $79,600.

Bank Protection, etc. — Caruthersville, Mo.—St. Francis Levee Dist. protection of levees and bank on Missouri River, incl. 6 standard current retards, 1,050 ft. total length, and 35 Bignell anchor piles, to Woods Bros. Constr. Co., 113 South 13th St., Lincoln, Neb. Engrs. est. $60,000.

Shore Protection—Centaur, Mo.—Chicago, Rock Island & Pacific Ry., Railway Exch. Bldg., Chicago, 1,350 ft. standard current retards for protection of river bank on Missouri River, incl. 25 Bignell anchor piles, to Woods Bros. Constr. Co., 113 South 13th St., Lincoln, Neb. Engrs. est. $60,000.

Bridge Protection—East Leavenworth, Mo.—Leavenworth Bridge & Terminal Co., Leavenworth, Kan., protection of embankment and bridge approach, also diverting channel to flow under draw span, incl. one 800 ft. retard and 30 Bignell anchor piles, to Woods Bros. Constr. Co., 113 South 13th St., Lincoln, Neb., $40,000.

Metal Flume—Merced, Calif.—Merced Irrigation Dist. will build metal flume on timber structure with concrete footings, by day labor. R. C. Starr, ch. engr. Noted Aug. 17.

Tunnel, Siphons, etc.—Merced, Calif.—Merced Irrigation Dist., to P. L. Burr, 512 Mission St., San Francisco, 1,300 lin.ft. tunnel, 11 x 10½ ft. driven through cemented rock and hard pan, timber lined, at $24 per lin.ft. for tunnel and $55 per ft. for timber lining in place; rein.-con siphons, incl. spillway and check structures, $24,700. Noted Aug. 17.

Pipe — Montreal, Que. — Montreal Light, Heat & Power Co., Craig St. W., to Natl. Iron Corp., Cherry St., Toronto, Ont., 300 lengths 12 in. c.i. pipe, 12 ft. long 262,880 lb., $45 per net ton, total $5,910; 250 lengths 8 in. c.i. pipe, 12 ft. long, 130,655 lb., $45 per ton, total $2,940; 615 lengths 20 in. c.i. pipe, 12 ft. long, 1,338,895 lb., $45 per ton, total $30,128.

Quay Walls — Montreal, Que. — Harbor Comrs., extending high quay walls between Sects. 25 and 35, 4,500 ft. long, to Atlas Constr. Co., Belmont St. $450,000.

ROAD WORK—KENTUCKY

Following are lowest bids opened Aug. 15, by State Highway Comn., Frankfort, for constructing State Project No. 29, Sect. "B," Beattyville-Irvine Rd., Lee Co., (A) Dempster Constr. Co., Knoxville, Tenn., (awarded contract); (B) Crippin Constr. Co., Knoxville; (C) Cosell-Byers, Winchester. The unit bids were as follows:

	A	B	C
28 acres clearing and grubbing	$30.00	$40.00	$75.00
10 removing trees and stumps	2.00	3.00	4.50
37,732 cu.yd. earth excavation	.41	.40	.46
95,544 cu.yd. borrow excavation	.39	.30	.47
2,525 cu.yd. excavation, channel change	.45	.40	1.00
37,548 cu.yd. solid rock excavation	.85	1.25	1.10
128 cu.yd. riprap	1.50	2.00	5.00
544.42 cu.yd. cement rubble masonry	10.00	10.50	13.00
10,730 lin.ft. standard cable guard rail	.40	.50	.65
111.35 cu.yd. class A concrete culverts	17.00	26.00	26.00
205 cu.yd. class A concrete bridges	20.00	26.50	28.00
5.74 cu.yd. class D concrete	40.00	80.00	60.00
271 cu.yd. cement rubble masonry, bridges	8.00	10.50	15.00
50,069 lb. reinforcement	.04	.06	.10
200 cu.yd. foundation excavation	1.00	.75	1.50
75 cu.yd. foundation excavation, wet earth	1.75	3.50	4.00
1,010 lin.ft. 18-in. standard vitrified pipe	2.00	2.66	2.85
34 lin.ft. 24-in. standard vitrified pipe	2.75	3.50	4.60
932 lin.ft. 18-in. D.S. vitrified pipe	2.10	2.75	3.25
708 lin.ft. 24-in. D. S. vitrified pipe	3.10	4.00	5.70
92.42 cu.yd. 1:3:6 encasing concrete	17.00	20.00	24.00
7 cu.yd. class A concrete, pipe support	17.00	80.00	22.00
107 lb. reinforcement	.04	.06	.10
1,942 lin.ft. 18-in. standard cast iron culvert pipe	4.00	5.50	6.00
742 lin.ft. 24-in. standard cast iron culvert pipe	6.00	8.50	8.00
1,942 lin.ft. 18-in. reinforced concrete pipe	2.80		3.50
742 lin.ft. 24-in. reinforced concrete pipe	3.80		6.70
Extended totals, vitrified pipe	* $115,257	$129,853	$154,061
Extended totals, cast iron pipe	119,517	136,225	159,157
Extended totals, reinforced-concrete pipe	115,554	......	153,04[illegible]

*Awarded contract.

ROAD WORK—TEXAS

Following are lowest three bids opened by Comrs. Camp Co., Pittsburg, for constructing 16.16 mi. State Highway No. 1-A, Federal Aid Project No. 55, (A) Coke & Turner, Marshall, (awarded contract); (B) F. P. McElwrath, Corsicana; (C) C. W. Burgess, Dallas Co. State Bank Bldg., Dallas. The unit bids were as follows:

	A	B	C
19 sta. light clearing	$2.50	$3.00	$2.00
55 sta. light grubbing	5.00	5.00	3.00
85,773 cu.yd. roadway excavation	.15	.15	.15
1,997 hrs. embankment rolling	1.00	1.50	.10
114,586.8 cu.yd. borrow excavation	.13	.14	.15
51,713.8 cu.yd. overhaul	.02	.03	.03
34,765.8 cu.yd. iron ore gravel base, furnishing and hauling first ½ mi.	2.60	2.60	2.75
12,087.2 cu.yd. iron ore gravel base, furnishing and hauling second ½ mi.	.06	.07	.07
8,334.7 cu.yd. iron ore gravel base, furnishing and hauling third ½ mi.	.12	.14	.14
3,629.4 cu.yd. iron ore gravel base, furnishing and hauling fourth ½ mi.	.18	.21	.21
173.9 cu.yd. iron ore gravel base, furnishing and hauling fifth ½ mi.	.24	.28	.28
8,694.9 cu.yd. limestone cover, furnishing and hauling first ½ mi.	4.50	4.20	5.00
521.8 cu.yd. limestone cover, furnishing and hauling second ½ mi.	.06	.07	.06½
642.2 cu.yd. limestone cover, furnishing and hauling third ½ mi.	.12	.14	.13
782.5 cu.yd. limestone cover, furnishing and hauling fourth ½ mi.	.18	.21	.19½
782.2 cu.yd. limestone cover, furnishing and hauling fifth ½ mi.	.24	.28	.26
782.6 cu.yd. limestone cover, furnishing and hauling sixth ½ mi.	.30	.35	.32½
686.6 cu.yd. limestone cover, furnishing and hauling seventh ½ mi.	.36	.42	.39
4,202.6 cu.yd. limestone cover, furnishing furnishing and hauling eighth ½ mi.	.42	.49	.45½
20,475.4 cu.yd. limestone cover, furnishing and hauling additional ½ mi.	.06	.06	.06
4,347.4 M gal. water for sprinkling	.75	1.50	1.50
172,027¼ gal. asphaltic oil—class A	.16	.16	.15½
127,989 lb. reinforcing steel	.05½	.05	.04¾
11,466 lin.ft. wood guard fence	.35	.40	.45
1,394.6 cu.yd. structural excavation (wet)	2.00	3.00	2.50
1,322.2 cu.yd. structural excavation (dry)	.75	.75	1.00
1,517.4 cu.yd. concrete—class A	18.00	19.00	18.40
204 lin.ft. concrete rail type C	2.00	1.75	1.90
Extended totals	$246,187	$254,135	$262,449

TUNNEL—PROVIDENCE, R. I.

Following are lowest three bids opened Aug. 30 by Water Supply Bd. for constructing tunnel for Scituate Aqueduct, Contr. No. 21 (A) Keystone State Constr. Co., 210 South 13th St., Phila.; (B) Winston & Co., Inc., 240 Fair St., Kingston, N. Y.; (C) P. McGovern, 50 East 42nd St., New York City. The unit bids were as follows:

	A	B	C
12,000 cu.yd. earth excavation in open cut	$3.00	$1.40	$9.00
5,000 cu.yd. rock excavation in open cut	5.00	4.00	10.60
3,000 cu.yd. refill and embankment in open cut	3.00	1.00	8.00
30 lin.ft. sinking shaft in earth	250.00	250.00	176.85
115 lin.ft. sinking shaft in rock	300.00	300.00	350.00
60,000 cu.yd. excavation in tunnel	12.00	13.50	14.550
200 cu.yd. enlargement of tunnel	16.00	12.00	4.85
150 M.ft., b.m. permanent timbering in tunnel	110.00	80.00	25.00
10 M. ft., b.m. temporary timbering in tunnel	130.00	80.00	95.00
15,340 lin.ft. shaft and tunnel drainage	1.00	5.00	3.00
18,200 lin.ft. forms for masonry lining	2.00	3.70	3.95
25,000 cu.yd. concrete masonry in horseshoe section of tunnel	7.00	8.00	5.00
1,000 cu.yd. concrete masonry in unreinforced circular section of tunnel	10.00	8.00	5.00
2,500 cu.yd. reinforced concrete in tunnel and approaches	11.00	18.00	5.00
200 cu.yd. excess concrete masonry in tunnel	3.00	3.00	3.00
1,500 cu.yd. dry packing	2.00	3.00	2.00
500 lin.ft. drilling holes in rock or masonry	2.00	1.00	0.25
5,000 lin.ft. steel pipe for grouting, etc.	0.40	0.25	0.58
1,000 making connections for grouting	1.50	0.60	0.84
800 tons sand for grout	2.50	1.50	1.70
2,500 cu.yd. grout	15.00	5.00	8.40
40,000 bbl. portland cement	3.00	2.90	2.50
150,000 lb. steel for reinforcing concrete	0.05	0.07	0.0525
5,000 bbl. liquid chlorine	0.20	0.10	0.0875
3 chlorine dosing machines	2,500.00	2,000.00	1,700.00
3 locker houses	4,500.00	5,000.00	3,400.00
Cleaning up (lump sum)	1,000.00	1,000.00	3,500.00
Extended totals	$1,318,340	$1,489,190	$1,537,573

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: **Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.**

Rate:
40 Cents a Line an Insertion

Plans and Specifications **for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.**

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: Oct. 3.

Water Works System and Sanitary Sewer System

Haines City, Fla.

Sealed proposals for furnishing material and constructing a Water Works System and a Sanitary Sewer System for the Town of Haines City, Fla., will be received by the Mayor and Council at the City Hall, until 2 P.M., October 3rd, 1922.

The Water Works System will consist of approximately 4 miles of 4 in., 6 in., 8 in. and 10 in. cast iron pipe, with specials, valves and hydrants, a clear water collecting well, pump station and equipment, and a 100,000 gallon elevated tank.

The Sewer System will consist of approximately 1.7 miles of 8 in., 10 in. and 15 in. vitrified pipe, with manholes, flush tanks, and appurtenances, and a settling tank and tile under-drain system.

Each proposal must be accompanied by a certified check, payable to the Town of Haines City, Florida, to an amount equal to five (5) per cent of the bid, as a guarantee that the contract will be entered into if awarded. A bond of one hundred per cent (100%) of the contract price will be required. Payments will be made on monthly estimates.

Plans and specifications are on file in the office of the City Clerk, at Haines City, Florida, and with Paul H. Norcross, Consulting Engineer, 1404 Candler Building, Atlanta, Georgia.

Bidders may obtain copies from the Engineer by enclosing certified check for twenty-five ($25.00) dollars, payable to the Town of Haines City, Florida. If blue prints are desired they may be had at the cost of printing. If the plans, specifications and blue prints are returned within thirty days after opening bids, the check for twenty-five dollars will be returned.

R. O. PHILPOT,
President City Council.
JED R. YALE,
City Clerk.

PAUL H. NORCROSS,
Consulting Engineer,
1404 Candler Building,
Atlanta, Georgia.

Bids: Oct. 2.

Combined Sanitary and Storm Sewers

Cape Girardeau, Missouri.

Sealed bids will be received until 2:30 o'clock, P.M., October 2nd, 1922, at the Council Chamber by the City Council for the construction of a combined sanitary and storm sewerage system in sewer district No. 5, in accordance with the plans and specifications therefor on file in the office of the City Clerk. Copies of said plans and specifications may be obtained from C. E. Smith & Co., Consulting Engineers, 2073 Railway Exchange Building, St. Louis, Missouri, or Cape Girardeau, Missouri, by depositing $15.00, one half of which will be refunded upon return of the same in good condition within seven days after the award of the contract.

Full information and proposal forms may be obtained from the Consulting Engineers. Estimated cost of work Three Hundred and Fifty-two Thousand Dollars. The right is reserved to reject any or all bids. Bids will be opened at 2:30 o'clock P.M., Monday, October 2nd, 1922.

A. P. BEHRENS,
City Clerk.

OFFICIAL PROPOSALS

Bids: Oct. 10.

Sewage Pumping Station and Grit Chamber

Syracuse, N. Y.

Sealed proposals will be received until 2 o'clock p.m., standard time, October 10, 1922, at the office of the Syracuse Intercepting Sewer Board, 104 City Hall, Syracuse, N. Y., for the machinery and equipment for the Sewage Pumping Station and Grit Chamber now in course of construction at the Sewage Treatment Works of the City of Syracuse.

Equipment included in the contract are the switchboard and control mechanisms, four 24-inch horizontal shaft centrifugal pumps direct-connected to 75 H.P. variable speed A.C. motors, auxiliary vacuum, priming pumps and sump pump, a 10 K.W. motor-generator set, cast iron suction and discharge piping with four 24-inch hydraulically operated gate valves, a 54-inch hydraulically operated sluice gate, three 48-inch by 51-inch electrically operated sluice gates, a 7½ ton hand operated traveling crane, with permission to use same during erection, and a grit cleaning mechanism consisting of tramrail with electrically operated hoist and ½ cubic yard clam-shell bucket; and all necessary wiring and piping connections. All equipment will be erected upon concrete foundations provided by the Board under another contract.

Proposals must be made on blanks to be furnished upon application and must be accompanied by a New York draft or a certified check for $6,000, which is to be deposited therewith as guarantee that the successful bidder will execute the contract within five days after its award.

Drawings, specifications and form of proposals and contracts are on file in the offices of the Board. Copies thereof may be obtained by depositing $10 to insure their return in acceptable condition on or before November 1, 1922.

HARRY J. HAMLIN,
Secretary.

Bids: Sept. 22.

Road Work

Montpelier, Vt.

Sealed proposals will be received at the office of the Commissioner of Highways, Montpelier, Vermont, until 1:30 P.M., September 22, 1922, and then publicly opened and read, for the construction of 3.25 miles of gravel road in the Town of Barton, Vermont.

Plans and specifications may be seen at the office of the State Engineer, at Montpelier, Vermont, and at the Town Clerk's office in Barton, Vermont.

Bidders should satisfy themselves before bidding as to the character of the work and the obstacles to be encountered. The estimated quantities are not guaranteed, but are given as a basis for the comparison of bids.

A certified check for $2,500.00, payable to the State Highway Board, must accompany each bid.

The right is reserved to reject any or all bids.

By order of the State Highway Board.

THURMAN W. DIX,
Commissioner of Highways.

Dated at Montpelier, Vermont,
September 6, 1922.

OFFICIAL PROPOSALS

Bids: Sept. 20.

Pipe Sewers and Disposal Works

Rye, N. Y.

Sealed proposals will be received and opened publicly by the Trustees of the Village of Rye, N. Y., at the Village Municipal Hall, at 8:15 p.m., Wednesday, September 20th, 1922.

Said proposals to cover construction (both materials and labor included) of certain pipe sewers and disposal works, according to plans and specifications filed with the Village Clerk.

Copies of plans and specifications may be seen also at office of City-Wastes Disposal Co., 45 Seventh Ave., New York City. Sets may be borrowed upon deposit of $15.00 of which $10.00 will be refunded if papers are returned in good condition before October 1st, 1922.

Approximately the proposed work consists of:

About 29,000 feet of 8-inch and 600 feet of 15-inch vtirified pipe sewers, with manholes and flushtanks, much of it in rock excavation;

About 6,600 feet of iron pipe sewers, siphons and force mains, 8-inch to 16-inch;

An indeterminate amount of drain-tile laid in sewer trench;

Sewage tanks, sprinkling filters and sand-beds, with appurtenances.

Each bid must be made on blank forms obtained from the Village Clerk or the Engineer, and must be accompanied by a certified check for $10,000 as a guarantee of good faith.

The Village reserves the right to reject any or all bids.

WILLIAM H. SELZER,
Village Clerk.
Rye, Westchester County,
New York.

G. EVERETT HILL,
Engineer,
45 Seventh Ave.,
New York.

Bids: Sept. 26.

Bridge Work

Toledo, Ohio.

Sealed proposals will be received by the Director of Public Service of the City of Toledo, until Twelve O'Clock noon, September 26, 1922, for the construction of a bridge over Swan Creek, in the line of Hawley Street.

The work will consist of:

1. Removing old structure.
2. Building two abutments approximately 1,800 cubic yards of concrete.
3. Furnishing steel girders—90 feet span.
4. Paving bridge and approaches, approximately 787 square yards.

Proposal forms, plans and specifications can be seen at the office of the Commissioner of Engineering or can be obtained from said office on deposit of $10.00 for each set, which will be refunded provided plans and specifications are returned in good order.

The Director of Public Service reserves the right to reject any or all bids or to accept any bid which he may deem advantageous to the City of Toledo.

W. T. JACKSON,
Director of Public Service.

Attest: GEORGE E. LASKA,
Secretary.

Bids: Sept. 27.

Bridge Paving

Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following:

For the removal of present wood block pavement and concrete on Passaic River Bridge, Route No. 1, Lincoln Highway, and replacing of same with a reinforced concrete base and wood block pavement including waterproofing.

The estimated area of roadway surface is 24,000 sq.ft.

Bids for the above will be received at the office of the State Highway Commission, Broad Street Bank Building, Trenton, N. J., on Wednesday, September 27, 1922, at 11:00 A.M., Standard Time, and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, N. J., and office of John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J., and may be inspected by prospective bidders. Plans will be furnished on deposit of ten ($10.00) dollars, for doing this work upon application to John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications for this work; same to be enclosed in sealed special addressed envelopes bearing the name and address of bidder and the work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the State Treasurer for not less than ten (10%) per cent of the amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application to John L. Vogel, Bridge Engineer, 772 Broad St., Newark, N. J. Bids not enclosed in special envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the specifications conditioned for the faithful performance of the provisions of the contract and specifications.

By order of the State Highway Commission.

A. LEE GROVER,
Chief Clerk.

Bids: Sept. 25.

Construction of Sewer System

Ellsworth, Wis.

Proposals for the construction of a sewerage system and appurtenances will be received by the Village Board of the Village of Ellsworth, Wis., acting as a Board of Public Works of the said Village up to 5 P.M. on Sept. 25, 1922, and will be publicly opened and considered immediately thereafter. This work comprises approximately the following quantities:

17,000 ft. 8 in. sewer 5-15 ft. deep
4,650 ft. 10 in. sewer 5-13 ft. deep
4,250 ft. 12 in. sewer 5-13 ft. deep
81 ft. Manholes
2 ft. Lampholes
3 ft. Imhoff Tanks, sludge beds, intermittent filers and accessories.

Plans and specifications may be seen at the office of the Village Clerk and at the Office of the Engineers. Copies thereof may be obtained of the Engineers upon the payment of $15.00 per set to cover the cost of reproduction and mailing, ½ of which will be refunded upon their return in good order.

No proposal will be considered unless sealed and marked on the outside with the name of the bidder and a notation of the nature of the work for which bid is made, and filed with the Village Clerk.

Bidders must accompany their bids by a bond with sureties executed on the part of the bidder, which sureties shall justify as to their responsibility, and by their several affidavits show that they are worth in the aggregate at least the amount mentioned in the contract in property not by law exempt from execution, or in lieu of such bond, bidders may accompany their bid with a certified check equal to five per cent of the bid and agree to have inserted in the contract a provision for the retention by the Village of twenty per cent of the estimate made from time to time.

Proposals must be submitted on the blank forms provided by the Engineers, free of charge and must be made on the basis of cash payment for the work. The successful bidder may be required to give bond in the full amount of the contract.

Special attention of the bidders is called to the "Instructions to Bidders" in the proposal form. Bidders are to understand that construction is to commence May 1, 1928.

The right is reserved to reject any or all bids.

Dated at Ellsworth, Wis. this 4th day of Sept. 1922.

R. N. CLAPP,
Village President

ATTEST:
M. D. WOOD,
Village Clerk
DRUAR & MILINOWSKI
Consulting Engineers
500 Globe Bldg.
St. Paul, Minn.

Engineering News-Record Reaches Your Local Contractors

Its distribution among the contractors of any one state is in proportion to the number of contractors situated in that state. The Official Proposal Colums of *Engineering News-Record* offer precisely the same efficient service to municipalities, counties, and state and government departments in every section of the United States.

Bids: Sept. 19.

Sheet Asphalt Resurfacing

Woodbury, N. J.

Notice is hereby given that sealed bids will be received by The Board of Chosen Freeholders of the County of Gloucester for the resurfacing of Delaware Street, in the County of Gloucester with a sheet asphalt surface upon the present reconstructed foundation, estimated amount of asphalt surface pavement required is 15,056 sq.yd.; of stone for reconstructing foundation is 5,271 tons; and opened and read in public at the Court House, Woodbury, N. J., on Tuesday, the nineteenth day of September, 1922, at 10.30 a.m., Eastern Standard Time.

Drawings, specifications and forms of bids, contract and bond for the proposed work, prepared by William C. Cattell, County Engineer, and approved by the State Highway Commission, have been filed in the office of said engineer at Woodbury, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blueprints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to The Board of Chosen Freeholders of the County of Gloucester and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500 nor more than $20,000 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders of the County of Gloucester.

CHESTER N. STEELMAN,
Clerk.
WILLIAM C. CATTELL,
County Engineer.

Bids: Sept. 27.

Drainage and Snow Plows

Dover, Del.

Sealed proposals will be received by the State Highway Department, at its office, Dover, Delaware, until 2 o'clock P. M., Sept. 27, 1922, and at that place and time publicly opened, for the construction of State Highway, involving the following approximate quantities:

Contract CK-8A, at Camden

1700 lin.ft. 15 in. T. C. Pipe (inc. Excav.)
1400 lbs. Castings for Inlets
4 only Manholes
1 only Outlet
4 only Catch Basins, Concrete and Steel

2 Snow-Plows

V-shaped steel snow plow ten (10) feet wide by four (4) feet high, mounted on rollers; hand operated to clear highway twelve (12) inches front and eight (8) inches at rear; for use on 10-ton Holt artillery tractor.

Performance of contract shall commence within ten (10) days after execution of the contract and be completed on or before December 15, 1922.

Monthly payments will be made for 90 per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the Department.

Each proposal must be accompanied by a surety bond, certified check, or money to the amount of at least ten (10) per centum of the total amount of the proposal.

The envelope containing the proposal must be marked "Proposal for the Construction of Cont. CK-8A", or "2 Snow-Plows."

The Contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Detailed plans may be seen and index plans and specifications may be obtained upon deposit of ten dollars (10.00) which amount will be refunded upon return of plans and specifications in good condition at the office of

STATE HIGHWAY DEPARTMENT,
DOVER, DELAWARE.

Bids: Oct. 3.

Construction of Inlet

Ft. Lauderdale, Fla.

Notice is hereby given that the Board of County Commissioners, Broward County, Florida, will receive bids until 11:00 o'clock a.m., on Tuesday, October 3rd, 1922, for the construction of an inlet from New River Sound to the Atlantic Ocean, near Ft. Lauderdale, as per plans and specifications on file in the Clerk's Office, Courthouse Bldg., Ft. Lauderdale, Florida. Such work shall be let in two contracts, being as follows:—

(a) The dredging of 81,000 cubic yards more or less of earth; and the dredging of 5,000 cubic yards more or less of rock;

(b) The furnishing and placing of 6200 cubic yards more or less of riprap and jetty hearting and of 2500 tons more or less of jetty capping, all in riprap and jetty construction.

Separate bids will be received and separate contracts let for each of the two classes of work mentioned Copy of plans and specifications may be secured from the Clerk upon payment of $1.00 to cover cost of printing same.

Each bid shall be accompanied by a certified check in the amount of 3% of the bid, guaranteeing that bidder will make contract and bond within ten days of notice of award.

Bond on each contract will be required in the sum of 50% of the amount bid.

Address all bids to the Board of County Commissioners in care of Frank A. Bryan, Clerk, Ft. Lauderdale, Fla.

The Board reserves the right to reject any and all bids.

By order of the Board. August 22nd. 1922.

H. G. WHEELER,
Chairman.

Attest: FRANK A. BRYAN,
Clerk.
Dated August 22, 1922.

Bids: Sept. 28.

Laboratory Building

Ithaca, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Addition to Laboratory Building (South Wing—James Law Hall), at the New York State Veterinary College, Cornell University, Ithaca, N. Y., will be received by Mr. C. D. Bostwick, Comptroller, Cornell University, Ithaca, N. Y., until 12 o'clock noon, (Standard Time), on Thursday, September 28, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 3472, 3473, 3474 and 3475. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the office of Mr. C. D. Bostwick, Comptroller, Cornell University, Ithaca, N. Y.; at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: August 28, 1922.

Bids: Sept. 28.

Laying Cast Iron Water Pipe and Appurtenances

Poughkeepsie, N. Y.

Sealed proposals will be received by the Board of Public Works at its offices in Eastman Park Mansion on or before 4:00 p.m., (Daylight Saving Time), Thursday, September 28th, 1922, for the laying of cast iron water pipe and appurtenances.

Plans, specifications, form of proposal, bond and contract may be obtained at the office of the Superintendent of Public Works, Poughkeepsie, N. Y., and at the office of Hazen, Whipple and Fuller, Consulting Engineers, 30 East 42nd Street, New York City, upon the deposit of Twenty-five ($25.00) Dollars, which amount will be refunded upon the return of the plans and specifications in good condition.

Quantities of work to be done are approximately:

CONTRACT A

Item 1: 4,800 cubic yards of trench excavation in earth.
Item 2: 3,200 cubic yards of trench excavation in rock.
Item 3: Laying 11,100 linear feet of 24" cast iron pipe furnished by the Board.
Item 4: Placing 50 tons of specials furnished by the Board.
Item 5: Placing gates furnished by Board. Lump sum.
Item 6: Making connections to existing pipes. Lump sum.
Item 7: 80 cubic yards of concrete in agate chambers.
Item 8: 12 cubic yards of concrete in trench.
Item 9: 1,600 pounds steel reinforcing.
Item 10: Supporting tracks. Lump sum.
Item 11: Creek crossing. Lump sum.
Item 12: Sheeting left in place.
Item 13: Appurtenances.

CONTRACT B

Item 14: 5,400 cubic yards of excavation in earth.
Item 15: 1,500 cubic yards of excavation in rock.
Item 16: Laying 3,720 linear feet of 20" cast iron pipe furnished by the Board.
Item 17: Laying 5,910 linear feet of 24" cast iron pipe furnished by the Board.
Item 18: Laying 165 linear feet of 30" cast iron pipe furnished by the Board.
Item 19: Placing 45 tons of specials furnished by the Board.
Item 20: Placing gates furnished by the Board. Lump sum.
Item 21: Making connections to existing pipes. Lump sum.
Item 22: 75 cubic yards of concrete in gate chambers.
Item 23: 15 cubic yards of concrete in trench.
Item 24: 1,700 pounds steel reinforcing.
Item 25: Supporting tracks. Lump sum.
Item 26: Creek crossing. Lump sum.
Item 27: Sheeting left in place.
Item 28: Appurtenances.

The proposal shall be accompanied by a certified check drawn upon an incorporated State or National Bank or Trust Company in good credit, within this State, payable to the order of the City of Poughkeepsie for five per cent of the amount of the bid. The successful bidder will be required to give a satisfactory bond for the faithful performance of the agreement in amount equal to fifty per cent of the value of the contract.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works,
THOMAS F. LAWLOR,
Supt.

HAZEN, WHIPPLE & FULLER,
Consulting Engineers,
30 East 42nd Street,
New York City.

South Nyack, New York Saved $2,642.20

Through advertising for bids on a paving contract in *Engineering News-Record*.

This publicity in these Official Proposal Columns is a mighty profitable investment for any community.

It Costs so little, too.

Bids:: Sept. 25.

Spavinaw Water Supply Project

Tulsa, Okla.

Sealed proposals for the construction of the major portion of the Spavinaw Water Supply Project for the City of Tulsa, Oklahoma, will be received by the Water Commission of the City of Tulsa, and may be filed at the office of the City Auditor, City Hall, Tulsa, Oklahoma, until 3:00 p.m. Monday, September 25th, 1922, and will be opened and publicly read immediately thereafter at a regular meeting of the Water Commission of the City of Tulsa at 3:00 p.m., Monday, September 25, 1922. Proposals will be received on the following contracts:

Contract No. 1 Telephone Line.
Contract No. 2 Clearing Site of Spavinaw Lake.
Contract N. 3 Spavinaw Dam.
Contract No. 4 60 in. Reinforced Concrete Pipe.
Contract No. 5 Tunnel and Approaches.
Contract No. 6 54 in. Reinforced Concrete Pipe.
Contract No. 7 Mohawk Reservoir.
Contract No. 8 Furnishing Cast Iron or Steel Pipe and Specials.
Contract No. 9 Furnishing Gate Valves.
Contract No. 10 Laying Cast Iron or Steel Pipe.
Contract No. 11 High Pressure Reservoir.

After the reading of the bids on these contracts they will be immediately considered, but in no event will any contract or contracts be awarded earlier than forty-eight (48) hours thereafter.

The principal quantities are approximately as follows:

DAM: Concrete, 79,000 cubic yards. Earth embankment, 182,000 cubic yards.

PIPE: 28 miles of 60 in. and 25 miles of 54 in. pre-cast reinforced concrete pipe.

Earth Excavation in trench, 310,000 cubic yards.

Rock Excavation in trench, 26,000 cubic yards.

TUNNEL: 7,000 ft. 84 in. Tunnel, 3,050 ft. 84 in. monolithic concrete conduit.

MOHAWK RESERVOIR: 300,000 cubic yards earth embankment.

REINFORCED CONCRETE HIGH PRESSURE RESERVOIR OR RESERVOIRS: 10,000,000 gal. aggregate capacity; 10,000 ft. 36 in. Cast Iron or Steel Pipe; 6,000 ft. 30 in. Cast Iron or Steel Pipe; 8,000 ft. 20 in. Cast Iron Pipe. Specials and Valves.

Each proposal must be accompanied by a certified check on any reputable bank or trust company, payable without reserve to the City of Tulsa, Oklahoma, for five per cent (5%) of the amount of the bid.

All proposals must be made on blank forms furnished by the City of Tulsa and in accordance with the "Requirements for Bidding and Instructions to Bidders."

Proposals may be tendered on one or more contracts or on all of the contracts, but any proposal must include all items under the contract or contracts for which bid is tendered.

Plans, Specifications and Requirements for Bidding and Instructions to Bidders are on file at the Office of the Water Commission at the City Hall and may be seen at the office of Trammell and Holway, Engineers on the Spavinaw Water Supply Project, 329 Kennedy Building, Tulsa, Oklahoma, or at the office of Dabney H. Maury, Consulting Engineer for the said Project, 1445 Monadnock Block, Chicago, Illinois. Complete plans and specifications will be furnished by the Engineers or by the Consulting Engineer, upon the deposit of $50.00 by check payable to Trammell and Holway. Upon return of the plans and specifications in good condition within a reasonable time after the awarding of the contracts, $30.00 will be refunded. Proportionate deposit and refund may be arranged for if bidder desires only parts of the plans.

The Water Commission reserves the right to reject any bid or bids, or all bids, and to waive any informalities.

WATER COMMISSION OF THE
CITY OF TULSA.
A. J. RUDD, Chairman.
G. R. McCULLOUGH,
C. S. AVERY,
H. L. STANDEVEN,
A. L. FARMER,
ROY GARBETT,
City Auditor.

TRAMMELL and HOLWAY, Engineers,
329 Kennedy Building,
Tulsa, Oklahoma.
DABNEY H. MAURY,
Consulting Engineer,
Chicago, Ill.

Bids: Sept. 20.

Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock P.M., advanced standard time, which is twelve o'clock noon eastern standard time, on Wednesday, the 20th day of September, 1922, for the improvement of highways in the following counties:

Franklin............(one highway: 8.91)
Livingston..........(one highway: 0.99)
Onondaga...........(one highway: 3.47)
Otsego..............(one highway: 1.74)
Rockland....(two highways: 1.48 & 4.08

Also for the reconstruction of the following:

Cortland............(one contract: 0.54)
Monroe..............(one contract: 4.70)
Ontario.............(one contract: 2.23)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved or reconstructed. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.

J. C. FINCH,
Secretary.

Bids: Sept. 27.

Road Work

Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the construction of the following:

Route No. 14—Section No. 7—Petersburg-Greenfield, Cape May County; estimated amount of "Borrow Excavation" is 56,606 cubic yards, and of compacted gravel surface 22,926 square yards.

Bids will be received at the office of the State Highwawy Commission at the Broad Street Bank Building, Trenton, New Jersey, on Wednesday, Sept. 27, 1922, at 11:00 A.M., Standard Time, and opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of Ten Dollars ($10.00) upon application to the State Highway Department, 9th floor, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated therein and as required by the 1922 specifications, same to be enclosed in sealed special addressed envelopes bearing the name and address of bidder and the name and section of the Route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that said certified check shall not be less than $500.00 or more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a Statement of Equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Chief Clerk.

Bids: Sept. 26.

State Road Work

Hartford, Conn.

Sealed proposals will be received by the State Highway Commissioner, 12 Washington Street, Hartford, Conn., until 2 p.m., Tuesday, DAYLIGHT SAVING TIME, September 26, 1922, for the following sections of State work, in accordance with plans and specifications on file in the office of the State Highway Commissioner and at the following places:

TOWN OF ESSEX: About 4,270 linear feet of 7 inch native stone macadam on of the United States Reclamation Service. tions at the Town Clerk's office and at the office of R. W. Stevens, Division Engineer, 12 Washington St., Hartford, Conn.

TOWN OF LYME: About 8,000 linear feet of 7 inch native stone macadam on the Hadlyme Road. Plans and specifications at the Town Clerk's office and at the office of A. W. Bushell, Division Engineer, Thayer Building, Norwich, Conn.

TOWN OF NORTH STONINGTON: About 6,075 linear feet of 7 inch native stone macadam on the Pendleton Hill Road. Plans and specifications at the Town Clerk's office and at the office of A. W. Bushell, Division Engineer, Thayer Building, Norwich, Conn.

TOWN OF VOLUNTOWN: About 4,050 linear feet of 7 inch native stone macadam on the Pendleton Hill Road. Plans and specifications at the Post Office and at the office of A. W. Bushell, Division Engineer, Thayer Building, Norwich, Conn.

TOWN OF BETHLEHEM: About 5,300 linear feet of 7 inch native stone macadam on the Bethlehem-Washington Road. Plans and specifications at the Town Clerk's office and at the office of G. E. Smith, Division Engineer, New Milford, Conn.

TOWN OF BRANFORD: About 17,150 linear feet of plain cement ooncrete pavement on the New Haven-New London Road. **Note:** Cement for the above work will be furnished by the State. Plans and specifications at the office of E. C. Welden, Division Engineer, Chamber of Commerce Bldg., New Haven, Conn.

TOWN OF KENT: About 26,256 linear feet of plain cement concrete pavement on the Housatonic River Road. **Note:** Cement for the above work will be furnished by the State. Plans and specifications at the office of G. E. Smith, Division Engineer, New Milford, Conn.

TOWN OF NORTH HAVEN: A two span concrete deck girder bridge over the Quinnipiac River. **Note:** Cement for the above work will be furnished by the State. Plans and specifications at the office of E. C. Welden, Division Engineer, New Haven, Conn.

All bids must be accompanied by a surety company bond or a certified check not less than one-third of the cost of the work. The State Highway Commissioner reserves the right to reject any and all bids.

Dated at Hartford, Connecticut, September 5, 1922.

C. J. BENNETT,
State Highway Commissioner,
12 Washington Street, Hartford, Conn.

Thank You, Mr. Ferguson

"We just let contracts for approximately 25 miles of road construction yesterday and I attribute to a great extent the large number of bidders we had to the Publicity we received through the *News-Record.*"

Very truly yours,
Angus Ferguson, Ch. Engr.,
Traylor County Road Department
Grafton, W. Va.

Bids: Oct. 10.

Concrete Structures: Filter Equipment and Brick Filter House

Greensboro, N. C.

Proposals will be received by the City Council of Greensboro, North Carolina, until 12 o'clock M. Tuesday, October 10th, 1922, for building a Filtration plant and appurtenances.

The work includes the construction and equipment of a six million gallon filter plant, the construction of a coagulation basin with dividing wall, capacity 1,148,000 gallons, and the construction of a mixing chamber. The principal quantities involved are:

8,000 cubic yards of earth excavation.
1,900 cubic yards of concrete.
225,00 pounds of reinforcing steel.
The equipment of six one-million gallon filter units.
80,000 brick laid in filter house walls.
Steel wash water tank of 70,000 gallons capacity.
1,000 GPM motor-operated pump.
Piping, valves, and miscellaneous items.

Plans will be on file and may be seen at the office of the City Manager, Greensboro, N. C., or at the office of The Ludlow Engineers, Winston-Salem, N. C., after September 15th. After that date copies of the Specifications, Bid Blank, and Contract may be obtained from the Engineers or City Manager. For the convenience of prospective bidders, the Engineers will furnish copies of the plans upon application accompanied by a check for ten ($10.00) dollars to cover the cost, or separate prints at one ($1.00) dollar each.

Each bid must be accompanied by a certified check in the sum of $5,000, or 5% of the amount of partial bids.

Proposals will be opened publicly with the usual rights reserved.

P. C. PAINTER,
City Manager.

J. L. LUDLOW,
Consulting Engineer.

Bids: Sept. 26.

Sewage Disposal Plant

Fort Worth, Tex.

Sealed proposals addressed to the Hon. Mayor and Board of Commissioners, Fort Worth, Texas., will be received at the office of C. S. Snow, City Secretary, City Hall, up to 9:00 o'clock a.m., Tuesday, September 26th, 1922, at which time said proposals will be publicly opened, read and considered by the Board of Commissioners for furnishing all necessary materials, equipment and labor for constructing a certain Sewage Disposal Plant for the City of Fort Worth, Texas .

Bidders must submit with proposal a certified check in the sum of Fifteen Thousand ($15,000.00) Dollars, payable, without recourse, to the order of E. B. Cheatham, City Auditor, as a guaranty that bidder will enter into contract and execute bond and guaranty in the forms provided, within ten days after notice of award of contract to him. Proposals without certified check will not be considered. The successful bidder must furnish bond to the amount of 33⅓ per cent of the sum bid, on form attached to "form of contract" attached to specifications, from a reliable surety company approved by the Mayor and Board of Commissioners. All "lump sum" and "unit" prices must be stated in both script and figures.

The City reserves the right to reject any or all bids, and to waive formalities.

In case of ambiguity, or lack of clearness in stating prices in the bids, the City reserves the right to consider the most advantageous construction thereof, or to reject the bid. Unreasonable (or "unbalanced") unit prices will authorize the City to reject any bid. Bidders are expected to inspect the site of the work and to inform themselves regarding all local conditions.

Instructions to bidders, proposal and contract forms, specifications and plans are on file at the office of Dudley L. Lewis, City Engineer; John B. Hawley, 403 Cotton Exchange Building, Fort Worth, and E. E. Sands, Mason Building, Houston, Texas.

Copies of plans and specifications may be secured from any of the above offices after September 12th—upon deposit of $100.00, to be returned to contractor upon submission of a bona fide bid on the work, with plans and specifications, or upon returning plans and specifications, intact, prior to date of receiving bids; otherwise the deposit will be forfeited.

E. R. COCKRELL, Mayor.
J. C. LORD, Com. Water & Sewers.
D. L. LEWIS, City Engineer.
C. S. SNOW, City Secretary.
Fort Worth, Texas,
August 29th, 1922.

Bids: Oct. 10.

Steam Turbine and Accessories

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans up to 12 o'clock, noon, Tuesday, October 10th, 1922, for furnishing one 6,000 kw. STEAM turbine and accessories.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

A. G. MOFFAT,
Secretary.

GEO. G. EARL,
General Superintendent.
Aug. 10, 1922.

Bids: Sept. 23.

Lumber Handling Crane

Aberdeen, Wash.

Sealed proposals will be received by the Port of Grays Harbor at the office of the Commission, 206 E. Wishkah St., Aberdeen, Wash., until 10 o'clock A.M., Sept. 23, 1922, for one 5 ton lumber handling mill type crane equipped with lumber grapple 75 foot span.

Further information on application.

PORT OF GRAYS HARBOR.
FRANK H. LAMB, President.
J. A. VANCE, Secretary.

Bids: Oct. 2.

Pavement, Curbing and Catch Basins

Noroton, Conn.

Sealed proposals for furnishing all labor and materials for the construction of proposed Drives, Curbing and Catch Basins and necessary drains to be constructed on the grounds of Fitch's Home for Soldiers and Soldiers' Hospital of Connecticut at Noroton Heights, Conn., will be received at the office of Col. Henry J. Seeley at the Soldiers' Home in Noroton until October 2, 1922, at 12:00 a.m. (D.S.T.).

The bids will be opened at the Governor's Office in the State Capitol at Hartford, on October 3rd, 1922, at 11:00 a.m. (D.S.T.).

The bids shall be in accordance with the plans and specifications for the work on file in the office of Col. Henry J. Seeley at the Soldiers' Home, where they may be obtained by bidders upon payment of $5.00, the same to be refunded when plans are returned in good condition.

The principal items of work consist of:

4,614	sq.yd. Penetration Pavement.
4,660	lin.ft. Concrete Curbing.
18	Catch Basins.

Each proposal shall contain the full name of every firm or corporation interested in the same and the address of the person or firm, or President or Secretary of the corporation bidding, and shall be accompanied by a certified check upon a national bank or trust company drawn to the order of The Soldiers' Hospital Board of Connecticut, in the sum of $650, which shall become the property of the State Hospital Board as liquidated damages in case the successful bidder fails to enter into a contract within five (5) days after the award of this contract as herein provided.

The checks of unsuccessful bidders will be returned upon demand and of the successful bidder upon completion of the work in a satisfactory manner, no bond being required.

All bids to be placed in a sealed envelope marked "Bids for Road and Curbing."

The Soldiers' Hospital Board reserves the right to reject any or all bids.

By order of
THE SOLDIERS' HOSPITAL BOARD
OF CONNECTICUT,
JOHN H. THACHER,
Chairman of Executive Committee.

Bids: Sept. 26.

Electric Light and Power Plant

Corinth, Miss.

Sealed proposals will be received at the office of the City Clerk of Corinth, Mississippi, up until 7:00 o'clock p.m. of Tuesday, the 26th day of September, 1922, for furnishing materials, labor and constructing according to the plans and specifications, a complete Municipal Electric Light and Power Plant.

The work will be divided into 10 sections. East section shall be a separate and distinct portion of the work and the Council reserves the right to award the contract by sections, any combination of sections or the work as a whole.

A brief description of each section is as follows:

Section No. 1. Power House Building complete and machinery foundations.

Section No. 2. 5′ x 125′ reinforced concrete chimney and foundation.

Section No. 3. Two (2) new 300 horsepower horizontal water tube boiler with steel breeching erected complete including brickwork.

Section No. 4. Two (2) new steam engines of the non-releasing corlis or the uniflow type. Size shall be ample to operate a 375 K.V.A. direct connected 3 phase, alternating current generator at 80% power factor. Furnished and erected complete on Purchaser's foundation. Alternate bids may be submitted on complete Turbine driven or oil driven units of same size as above stated.

Section No. 5. Two (2) new 375 K.V.A. 3 phase 60 cycle, 2300 volt, direct connected type alternator, furnished and erected complete on Purchaser's foundation.

Section No. 6. One (1) steam Turbine Driven Exciter and one (1) Electric Motor Driven Exciter Units furnished and erected complete on Purchaser's foundation.

Section No. 7. One (1) six panel Switchboard including wiring connections between switchboard and Exciters and Generators furnished and erected complete.

Section No. 8. Street Light and Pole line material furnished f.o.b. Corinth, Miss.

Section No. 9. Erection of Street Lighting and Distributing System complete.

Section No. 10. Steam piping, Feedwater Heater, Feedwater Pumps, Traps, etc., furnished and erected complete..

A certified check or Bidders Bonds of five (5%) per cent of the amount of each bid made payable to the Treasurer of the City of Corinth, Mississippi, must accompany each bid. Plans and Specifications are on file with the City Clerk at Corinth, Mississippi, and at the office of the Consulting Engineers, Fuller & Beard, Room 616 Title Guaranty Building, St. Louis, Missouri.

Parties desiring extra copies of Plans and Specifications for their personal use may obtain same from the Engineers. A deposit of $10.00 shall be made for a complete set of Plans and Specifications, $6.00 of which will be returned upon the receipt of the plans and specifications in good condition.

Bids must be sealed and addressed to M. T. Sharp, City Clerk, Corinth, Mississippi, and on the outside of the envelope must be plainly written "Proposals for Municipal Electric Light and Power Plant."

The Mayor and City Council especially reserve the right to reject any or all bids and waive informalities.

T. E. HENRY,
Mayor.
M. T. SHARP,
City Clerk.

A Representative Reports—

"It was my privilege to meet the Road Commissioners of Kalamazoo County (Mich.) in session and they wished me to convey to your staff their appreciation of the excellent results obtained through publishing proposals in *Engineering News-Record.*"

Bids: Sept. 19.

Road Construction

Woodbury, N. J.

Notice is hereby given that sealed bids will be received by The Board of Chosen Freeholders of the County of Gloucester for the construction of the Swedesboro-Woodstown road in the Borough of Swedesboro and Townships of Woolwich and South Harrison, in the County of Gloucester, New Jersey, with a reinforced concrete pavement, estimated amount of concrete pavement required is 38,402 sq.yd., and opened and read in public at Court House, Woodbury, New Jersey, on Tuesday, the nineteenth day of September, 1922, at 10.00 o'clock, Eastern Standard Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by William C. Cattell, County Engineer, have been filed in the office of the said engineer at Woodbury, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blueprints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside thereof, addressed to The Board of Chosen Freeholders of the County of Gloucester and must be accompanied by a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500 nor more than $20,000 and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of The Board of Chosen Freeholders of the County of Gloucester.

CHESTER N. STEELMAN,
WILLIAM C. CATTELL, Clerk.
County Engineer.

Bids: Sept. 25.

School Building

Cinnaminson, N. J.

At a meeting of the Board of Education of the Township of Cinnaminson, in the County of Burlington, to be held in the Westfield Public School Building, situate at the intersection of the Moorestown-Riverton Road and Pomona Road, Cinnaminson, Burlington County, New Jersey, on Monday, September 25, 1922, at 8 o'clock in the evening (daylight saving time), separate sealed bids or proposals will be received, opened, and considered for the following:

1. For the erection of, and for all labor, materials, tools and appliances necessary for a two-story and basement brick addition to the said Westfield Public School building, at Cinnaminson, Burlington County, New Jersey.
2. For the construction and installation of, and for all labor, materials, tools, fixtures and appliances necessary for, the heating and ventilating system in said addition to said school building.
3. For the construction and installation of, and for all labor, materials, tools, fixtures and appliances necessary for, the electrical system in said addition to said school building.
4. For the construction and installation of, and for all labor, materials, tools, fixtures and appliances necessary for, the plumbing and drainage system in and for said addition to said school building.

Each proposal shall be based upon plans and specifications for the work prepared by J. Fletcher Street, architect, 129 South Fifth Street, Philadelphia, Pa.; and must be accompanied by a certified check, or by a bid bond issued by a Surety Company authorized to transact business in the State of New Jersey, in favor of the said Board of Education in an amount equal to not less than ten per cent, of the amount of the proposal. Further information as to the terms and conditions of bidding may be obtained upon application to said architect, who will also furnish copies of the said plans and specifications upon deposit of Twenty Dollars for the building plans and specifications and Ten Dollars for the plans and specifications covering each of the other classes of work. Upon return of said plans and specifications promptly after proposals are received said deposits will be refunded.

The Board of Education reserves the right to reject any or all bids or proposals submitted; to waive any informality in the making of the same; and to decide as to the desirability or responsibility of any and all bidders.

By order of the Board of Education of the Township of Cinnaminson.

BENJAMIN LIPPINCOTT,
District Clerk,
Cinnaminson, N. J.

Dated, September 5, 1922.

Bids: Oct. 19.

Wanaque Aqueduct—Great Notch Tunnel—Preliminary Notice

Newark, N. J.

The North Jersey District Water Supply Commission of the State of New Jersey, 20 Clinton Street, Newark, New Jersey, will receive proposals on October 19, 1922, for construction of Great Notch Tunnel and Approaches.

The work will include the excavation and concrete lining of a 7-foot tunnel 9,100 feet in length and the construction of about 5,000 feet of 7-foot concrete aqueduct in open cut and various appurtenant structures.

Formal notice to contractors will appear on or about September 29, on which date pamphlets containing information for bidders, contract, specifications and drawings, will be available.

By order of the North Jersey District Water Supply Commission of the State of New Jersey.

LAURENT J. TONNELE,
Chairman.
MORRIS R. SHERRERD,
Consulting Engineer.
ATTEST:
EDMOND TYLER,
Secretary.
ARTHUR H. PRATT,
Chief Engineer.